

International Institute of Information Technology Bangalore

# EXECUTIVE PG PROGRAMME IN SOFTWARE DEVELOPMENT

### **Specialisation: Full Stack Development**



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### About

## upGrad and IIITB

upGrad has delivered over 20 million hours of learning, delivering programs by collaborating with universities across the world including Duke CE, IIIT Bangalore and Deakin Business School among others.

Online education is a fundamental disruption that will have a far-reaching impact. **upGrad** was founded taking this into consideration. upGrad is an online education platform to help individuals develop their professional potential in the most engaging learning environment.

Since inception, upGrad has delivered over 20 million hours of learning, delivering programs by collaborating with universities across the world including Duke CE, IIIT Bangalore and Deakin Business School among others.

upGrad is focused on helping working professionals in their bid to learn, grow and move up in their career through a wide-range of programs designed to improve their expertise.

**IIITB** is a renowned university offering programs specialising in Computer Science, data science, machine learning and artificial intelligence. The IIITB faculty includes an average of 15+ years of experience. IIITB's experienced faculty will teach the core concepts of computer science along with important software development principles. These will be complemented by industry relevant case studies from major industry verticals by industry leaders with 8+ years of experience from upGrad's industry network.

The Executive PG Programme in Software Development offers a unique and exciting combination of core Computer Science concepts, development principles and industry-led, hands-on application development experience. Additionally, learners will get opportunities to work on industry-relevant projects and interact with industry experts through upGrad's strong industry network. The program has been designed keeping in mind that the future belongs to the software developers who can think and implement end-to-end.



INR 1.23 CR Highest Salary Package



### **1600+** Learners Transitions

### **433%** Highest Salary Hike

**300+** Hiring Partners

700+ Industry Experts

**50%** Avgerage Salary Hike

# Program Highlights



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### Executive PG Programme from IIITB and Alumni Status

Get certified by IIITB and gain alumni status on successful completion of the program.

### For the Industry, by the Industry

Learn and apply concepts on industry projects along with personalised industry mentorship.

### **Programming Languages & Tools**

Learn programming languages and tools like Java, DSA, Git, OOPs, JUnit, Python, SQL, Apache Hadoop, Spark, Kafka, Sqoop, Hive, Airflow, Amazon Redshift, Amazon Glue, ElasticSearch, Kibana, Tableau & more.

### **100+ DSA Questions to Practice**

Solve 100+ DSA questions throughout the program to master this interview skill.

#### **E-portfolio**

Showcase your expertise and skills to potential employers using an e-portfolio. Get expert advice on how to craft your stellar GitHub profile.

### Blended Learning

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Learn with the ease and flexibility of recorded sessions as well as live sessions, designed to ensure a wholesome learning experience.

### **Personalised Mentorship**

Get unparalleled personalised mentorship and doubt resolution from Industry experts.

### Hands-on Learning

- Experiential Learning for Software Development Life Cycle
- Git and Version control concepts
- DSA Bootcamp for transition learners
- Design, Develop & Deploy Data Pipelines & Dashboards for Pandemic Tracking and Online Gaming User Activities.
- Work on 4 industry projects to apply your learnings.
- 5+ hands-on practice projects & various Big Data coding questions to keep your hands dirty.

### Learn from Academic &

### Industry Experts Full Stack Development



Yogesh Singh Senior Software Engineer, Walmart

Yogesh has 9 years of experience in Frontend technologies. He has procured 2nd prize in Hackathon -India by HackerEarth in Online commerce.



#### Joy Mukherjee Engineering Manager, Google

Joy is an IIT Kharagpur alum and has worked for Oracle, Yahoo, American Express and InMobi. He's an ex-senior director and Head of India for SparklineData. He also holds PhD in Parallel and Distributed Computer Systems from The Centre for High-End Computing Systems (CHECS), Virginia Tech.



Mohinish Kant Joshi Senior Full Stack Developer, VMware

Mohinish is Full-Stack Developer with 7+ years of experience in Application Design, Development and Deployment. He is Youtube content creator.



Abhishek Shawney Senior Solutions Architect, VMware

Abhishek has 15+ years of professional experience and currently working as Senior solution architect skilled in building cloud native apps



Vighneshwar Bhat Software Engineer, Walmart

Vighneshwasr is having 9+ years of experience in software development. Solid experience in developing scalable, secure products/applications.



Vishwa Mohan Staff Engineer, LinkedIn

Vishwa is working as the Staff Engineer at LinkedIn India. He bring with him around 10 years of experience working with multiple MNCs.

# upGrad Learning

# Experience

#### Job Opportunities

#### upGrad Opportunities

- upGrad Elevate: Thought Leadership and Multi-domain hiring drive giving you an opportunity to network and connect with industry leaders and hiring managers
- Job Opportunities Portal: Gain exclusive access to upGrad's Job Opportunities portal which has 150+ openings from upGrad's hiring partners at any given time
- Be the first to know vacancies to gain an edge in the application process
- Connect with companies that are the best match for you

#### **Career Assistance**

#### **Career Mentorship Sessions (1:1)**

Get mentored by an experienced industry expert and receive personalised feedback to achieve your desired outcome

#### High Performance Coaching (1:1)

Get a dedicated career coach after the program to help track your career goals, coach you on your profile, and support you during your career transition journey

#### **AI Powered Profile Builder**

Obtain specific, AI powered inputs on your resume and Linkedin structure along with content on real time basis

#### **Interview Preparation**

- Get access to Industry Experts and discuss any queries before your interview
- Career bootcamps to refresh your technical concepts and improve your soft skills

#### Learning Support

#### **Industry Expert Guidance**

- Interactive Live Sessions with leading industry experts covering curriculum + advanced topics
- Personalised Industry Session in small groups (of 10-12) with industry experts to augment program curriculum with customized industry based learning

#### **Student Support**

- We have a dedicated/ Student Support Team for handling your queries via email or callback requests.
- For urgent queries, use the "Talk to Us" option on the Learn platform

#### **Practical Learning and Networking**

#### **Networking & Learning Experience**

- Live Discussion forum for peer to peer doubt resolution monitored by technical experts
- Peer to peer networking opportunities with a alumni pool of 10000+
- Lab walkthroughs of industry-driven projects
- Weekly real-time doubt clearing sessions

# **Career Services and**

# BootCamp

#### **Jobs on Career Centre**

Career Centre offering upGrad jobs across experience levels and CTC ranges

- Easy apply feature for upGrad hiring partner
- vacancies.
- Create resume at profile builder and with one click to apply for various jobs

#### upGrad Elevate

- Recruitment Drive to connect you with the best talent admirers in the industry
- Get access to a wide range of opportunities and find the perfect job
- Apply your learnings to real industry problems

#### **Interview Preparation**

Pre-recorded content on topics such as:

- Profile building, communications etc
- Problem solving approach
- Approaching guesstimates
- Domain specific interview question bank and much more...

#### **Personalised Industry Session**

90-minute sessions over the weekend by leading industry experts

- Session categories: Career, Technical and Communications
- Doubt resolution
- Develop proof of concepts and apply theoretical
- concepts in the real world
- Assess skill levels
- Peer Networking
- Classroom element
- Business communication sessions and much more

#### Profile Builder (Al Powered)

An easy to use Resume, LinkedIn and Cover letter preparation tool.

- Resume Score: Al-Driven Resume Score
- Realtime recommendations to improve
- Match your resume to the JD and check fitment
- LinkedIn Profile Review
- Cover Letter creation

#### Just In Time Interview Prep (JIT)

For upcoming job interviews JITs are conducted within 48 hours for eligible programs.

- Tailored to job role and target domain.
- Real time feedback and tips for improvement

#### **High Performance Coaching**

Dedicated coaches working with you to identify best suited career opportunities.

- Help you define your value proposition
- Lay out a Career Path and help you adhere to your timelines and goals
- Help you with interview preparations, finding jobs in the market, salary negotiations and other preparation as required

#### **Career mentorship Sessions**

Get personalised career advice through 1-1 sessions with industry experts.

• Goal setting for better employment results

### Career

## **Transition Bootcamp**

1. Learn skills to help you transition to Software Development roles (SD1, SD2, SD3, Senior Software Engineer, Senior Software Developer) 4. Exhaustive list of Interview Questions curated from Top Companies such as Amazon, Google & Microsoft 2. Personalized content basis your level of knowledge 5. Relevant for preliminary rounds of interview in Tech Companies 3. Personalized industry sessions with industry experts 6. Get Data Structures & Algorithm **Bootcamp Completion Certificate** from upGrad

Industry

### **Projects** Full Stack Development



#### **Restaurant Finder**

Restaurant finder is a basic application that finds restaurants on the basis of their names and shows their details such as timings and menu. The aim of this project is to instill the fundamentals of software engineering. One would demonstrate the understanding of UML, testing the knowledge of JUnit and Mockito, understanding the Object-Oriented programming and following the Test Driven Development approach.



#### **True Value Seller Website**

True Value Seller is a static car selling and reselling website. It showcases different promotions and has a 'Contact Us' component. Upon clicking the 'Contact Us' button, the user is taken to another page where the contact details of the company is shown. By working on developing a simple website, one would be able to apply his/her understanding of HTML and CSS and leverage the power of Bootstrap to make web pages beautiful efficiently.



#### **Mobile Cart Application**

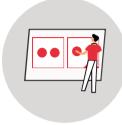
Mobile Cart is a simple frontend application which allows authorised users to add different mobile phones and their respective information on a website which can then be viewed by different users. The users can search for different mobile phones on the basis of name, price, brand etc. Get a deep understanding of document object model and manipulate the DOM structure by working on developing a mobile cart application. This project makes use of developer's understanding and application of DOM manipulation in order to develop a responsive web site which reacts to user interactions to render different content.



#### **Phone Directory Application**

The project aims to create a Phone Directory application which allows a user to add subscribers to a service by entering the subscriber's name and phone number and delete the subscriber if necessary. With the Phone Directory application, one can put into practice the skills and knowledge of React.js and React Hooks. While working on this project, one learns about how one can create the front-end of the application using React.js and integrate it with the back-end. Industry

### **Projects** Full Stack Development



#### **BookMyMovie Application**

With this application, which is named BookMyMovie, users can browse upcoming and released movies; filter released movies based on certain parameters and view details such as genre, artists and trailer of released movies. Also, registered users can book a show for a released movie. This project is aimed at developing the front end of a real-world application in React and leveraging different frontend technologies such as Bootstrap, React Hooks, to make the development process efficient.



#### **HireWheels**

HireWheels is a car rental service application. While developing this application, one would be able to apply the knowledge of creating entities, data access object interface, connecting the project to a database, service layer and establishing relationships between entities. After creation of data access layer and service layer, one would move on to implement a controller layer for the same and develop REST APIs performing simple CRUD operations.

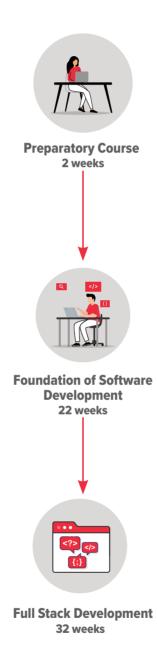


#### **Sweet Home Application**

Sweet Home is a microservices based application that allows the users to book rooms in a hotel, make payments based on the booking details and get confirmation of the same. In this project, you will follow the "single responsibility" principle to create a robust backend for the given problem statement by employing concepts of RESTful APIs, application security, microservices and finally developing synchronous communication between these microservices.

# Our Unique

# Learning Path

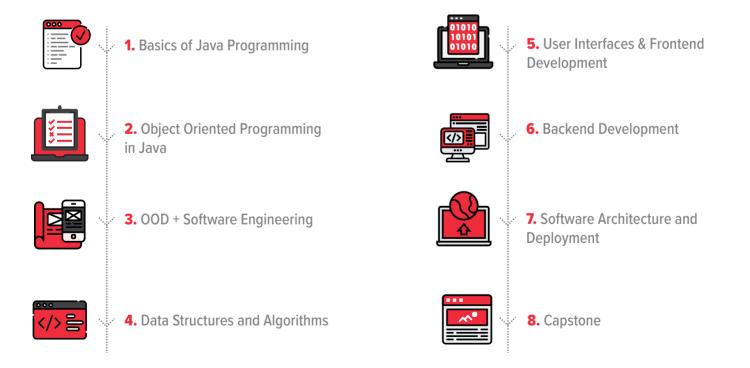


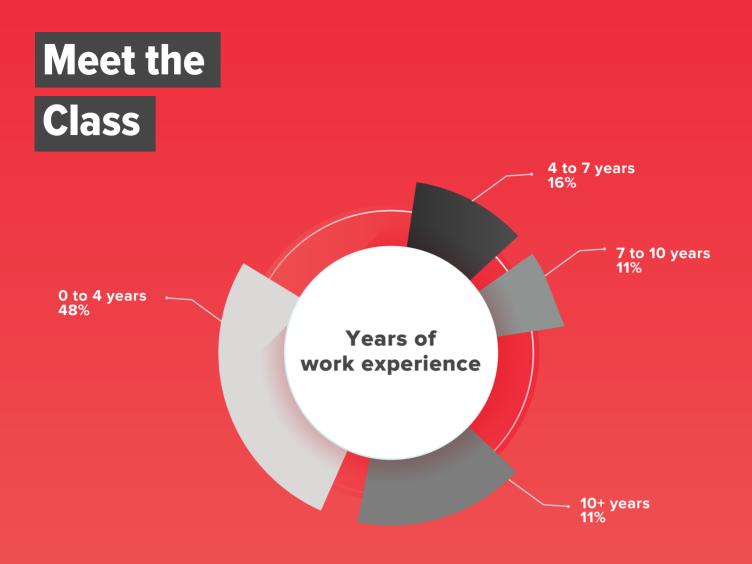
# Full Stack Development Specialisation

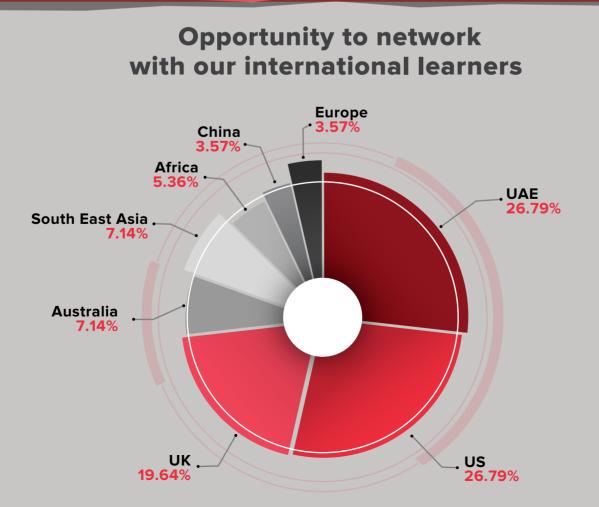
### Who is this for?

- Highly driven and ambitious software development professionals working as backend developers, front end developers, IT Professionals, etc across various industries and who wish to acquire expertise in Full Stack Development.
- Professional working in quality analyst and testing profiles who wish to make a shift into development roles.
- Professionals who are working in industries like IT/ITES, Consulting and many more at senior levels and who need core development skills and cross-functional knowledge to elevate to CTO Role.
- People who are working in non-technical roles and who want to kick-start their career in software development as a Full Stack Developer.

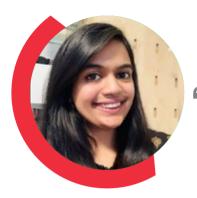
### **Learning Path**







## Hear from our learners



#### **Spoorthy Madhavan**

1 year of experience, System Analyst, Itron Inc.

This course is an excellent opportunity for those who are interested in evolving themselves into a full-stack developer and the certification from IIIT Bangalore is the icing on the cake for 11 months of hard work. **J** 



#### Akshay Verma

1 year of experience, Software Developer, Maxcom Technologies

My suggestion to any aspiring Software Development enthusiast is to enrol in this program, since it will enhance your skills and make you stand out from the rest of the Software Engineers. JJ



#### Maulik Trivedi

The programme is designed in such a way that it is industry relevant with experienced IIITB faculty. In every course, IIITB faculty shares input with core concept explanation and industry mentors talk about real-world implementation of concepts, which makes the course content more interesting and relevant. **J** 



Mananpreet Singh 3 years of experience, System Management Analyst, United Health Group

•• Overall, I can say that this program is a one-of-its-kind program which can help transform a person into a full-stack developer in less than a year.

## **Program Details &**

# **Admission Process**

#### **PROGRAM DURATION AND FORMAT**

13 months | Blended

#### **PROGRAM START DATES**

Please refer to the website for program start dates.

#### **PROGRAM FEE**

INR 2,49,000 (Incl. of all taxes)

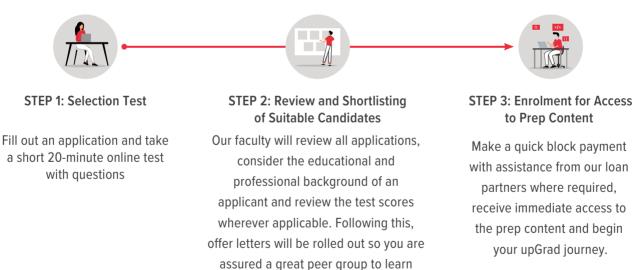
#### **ELIGIBILITY**

For Full Stack Development - Bachelor's Degree with 50% or equivalent passing marks. Prior coding knowledge preferred but not mandatory.

#### WEEKLY COMMITMENT (10-15 hours per week)



#### **SELECTION PROCESS**



and network with.

#### FOR FURTHER DETAILS, CONTACT

- admissions@upgrad.com
- 🔇 1800 210 2020

We are available 24\*7

Disclaimer: Program fee and payment options are subject to change. Please refer to the website for updated details or speak to our admission counsellor.

### upGrad

#### **COMPANY INFORMATION**

upGrad Education Private Limited Nishuvi, 75, Dr. Annie Besant Road Worli, Mumbai - 400018