

Post Graduate Program in Full Stack Web Development

University Program

Course Outline





Course Overview:

This Post Graduate Program, designed in collaboration with the Caltech CTME, will prepare you for a high-growth career path in software development. You will be taken on a journey of end-to-end software development through a mix of theory, case studies, and extensive hands-on practice through labs. Students also have access to mentorship sessions, providing a high-engagement learning experience; and real-world applications to help you master essential full stack web development skills.

The course curriculum is designed with a special emphasis on a practical learning experience. You will hone your programming continuously through regular practice in high-quality virtual labs. The course includes a Capstone project where learners can choose from four different fields and build high quality applications using the latest technologies—which will become a part of their portfolios.

At the end of this course, learners will be able to work on both front-end and back-end Java technologies. In addition, relevant concepts from DevOps and testing are covered. The course begins with the basic concepts and progressively takes you to advanced aspects of web development. Gaining expertise in technologies such as Angular, Spring Boot, Hibernate, Servlets, JSPs, MVC, and web services will open multiple career avenues for you.

Key Features:

- Caltech CTME Post Graduate Certificate 8X higher live interaction with live online classes by industry experts
- Build your own portfolio on GitHub
- Receive up to 25 CEUs from Caltech CTME upon course completion
- Capstone Project in 4 domains
- Caltech CTME Circle Membership
- Master Classes taught by Caltech CTME instructor
- Online Convocation by Caltech CTME Program Director
- 20 lesson-end and 5 phase-end projects



About Caltech CTME

Founded in 1891, Caltech is a world-renowned science and engineering research and education institution. Caltech's scientific, engineering, and technological contributions have earned national and international recognition, including the 32 Nobel Prizes awarded to its faculty and alumni. Caltech CTME has a unique role to play in applying the capabilities of scientists and engineers to the challenges of today's technology-driven businesses. This program directly applies executive education and professional development to real-world problems. Our experts teach the tools and perspectives that elevate careers and help companies achieve their goals.

Upon completing this program, you will receive:

- Caltech CTME Post Graduate Certificate
- Individual course completion certificates for all courses in the learning path
- Individual course completion certificate for all the courses in learning path from Simplilearn
- Program performance report for the entire learning path in the program
- Receive up-to 25 CEUs from Caltech CTME upon course completion
- Access to Caltech Circle Membership

Program Eligibility Criteria and Application Process

Those wishing to enroll in the Post Graduate Program in Full Stack Web Development, in collaboration with Caltech CTME, will be required to apply for admission.

Eligibility Criteria

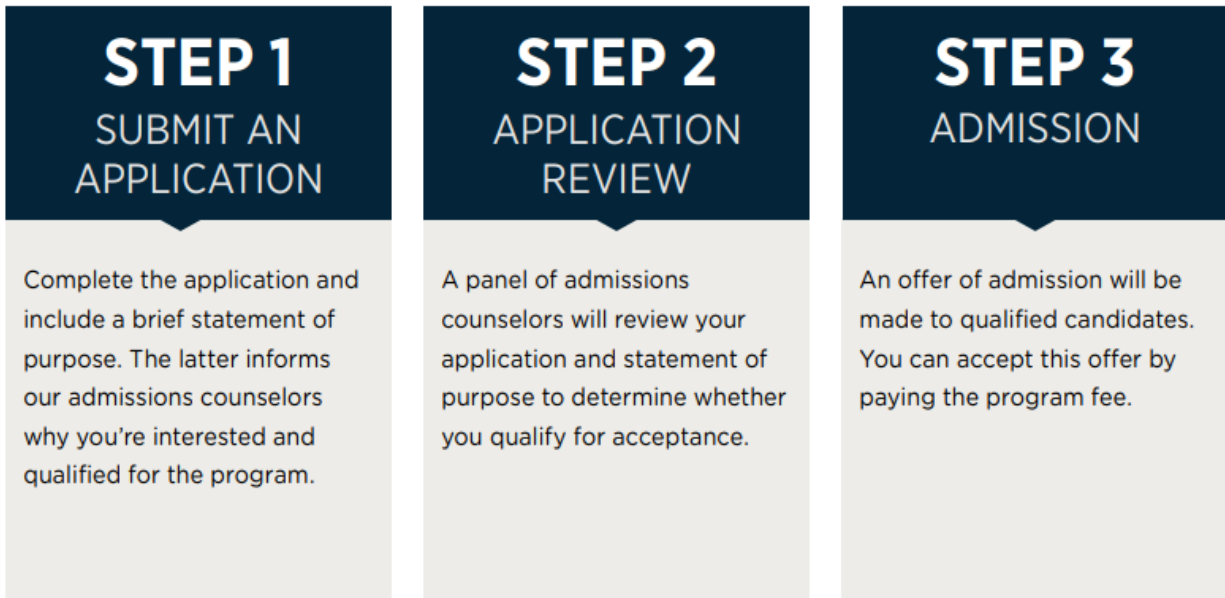
For admission to this Post Graduate Program in Full Stack Web Development, candidates:

- Should have a Bachelor's degree in any discipline with an average of 50% or higher marks
- Require basic programming knowledge
- Do not require prior work experience



Application Process

The application process consists of three simple steps. An offer of admission will be made to the selected candidates and accepted by the candidates by paying the admission fee.



Talk to an Admissions Counselor

We have a team of dedicated admissions counselors who are here to help guide you in applying to the program. They are available to:

- Address questions related to the application
- Assist with financial aid (if required)
- Help you resolve your questions and understand the program

Program Outcomes:

- Master software programming concepts—the basic building blocks of designing great apps
- Become an agile practitioner with the ability to work on an ongoing industry project quickly



- Build awesome front-end features
- Architect scalable back-end infrastructure
- Choose your own stack as per the requirements and delivery timeline
- Test features with minimal effort and deploy features seamlessly to build a production-ready industry application from scratch

Who should enroll in this program?

This program caters to a wide audience, from those who are hoping to enter the industry to those who already have some experience and aspire to become full stack web developers. The following are the few professional profiles that are ideal students for this course:

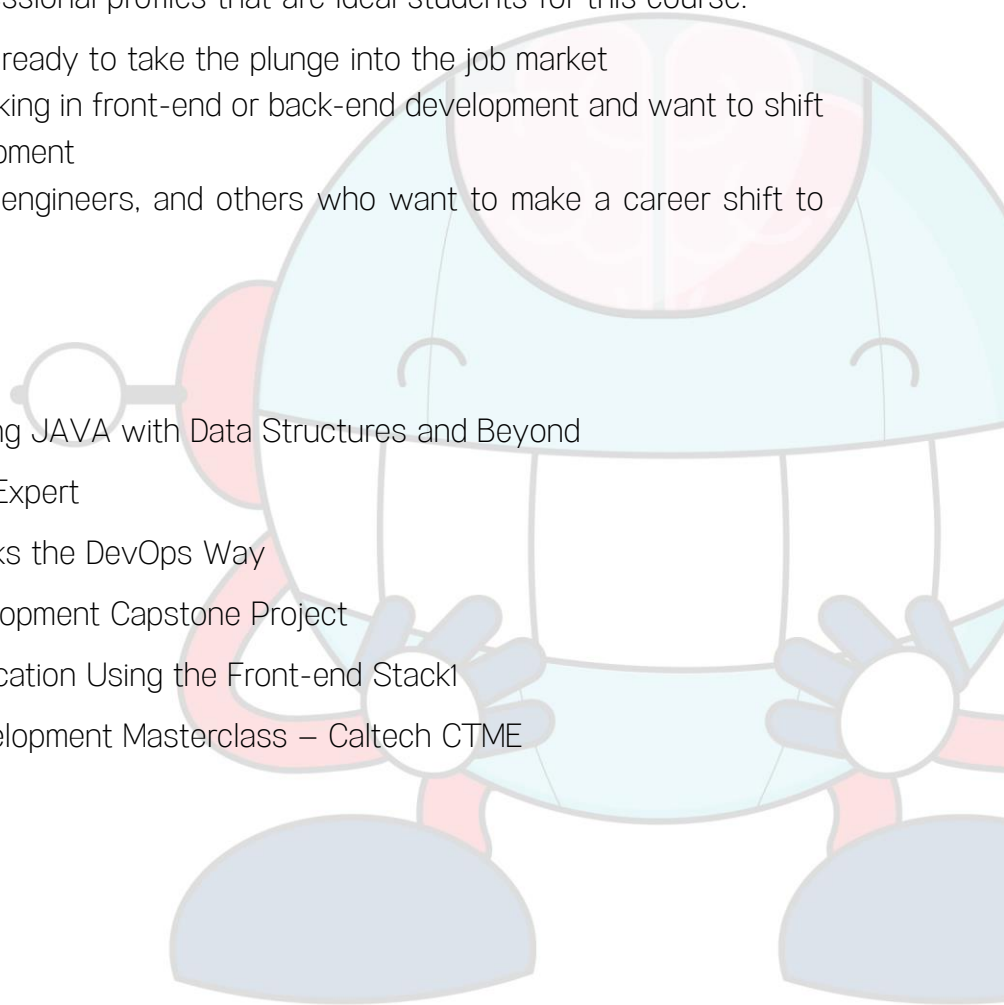
- New graduates who are ready to take the plunge into the job market
- Developers who are working in front-end or back-end development and want to shift to full stack web development
- Test engineers, system engineers, and others who want to make a career shift to development

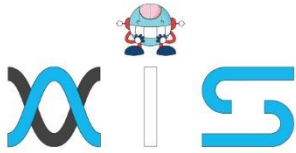
Learning Path:

1. Implement OOPS using JAVA with Data Structures and Beyond
 2. Become a Back-end Expert
 3. Implement Frameworks the DevOps Way
 4. Full Stack Web Development Capstone Project
 5. Develop a Web Application Using the Front-end Stack1
- (★) Full Stack Web Development Masterclass – Caltech CTME

Electives:

Testing in a DevOps Lifecycle





AIS

With the rising demand in scalable technology, AIS provides tailored goal-setting based on your organization's needs and expectations. With products geared towards the growing needs of your organization's customers and employees, AIS has innovative and value-driven solutions.

Learning Partners



SAS Management, Inc.

SAS Management, Inc. has been a leader in the training, certification and consulting services industry in the Philippines. With offices in Makati, Ortigas and Cebu, Philippines, the company has been the top training and consulting company for over 9 years. In its years of existence, it has provided certificates to over 100,000 professionals including 10,000 participants in the 160+ courses that have been conducted just during the 2020-2021 pandemic alone. The most sought-after courses being offered are ITIL, Project Management Professional (PMP)®, COBIT 5, Six Sigma Yellow Belt, Six Sigma Green Belt, PRINCE2, and organizational skills, among others.



Simplilearn

Simplilearn, based in California and India, is the world's #1 online bootcamp and one of the world's the leading certification and training providers. Simplilearn trained over 2,000,000 professionals with 2,000+ trainers and provides over 400 different courses.

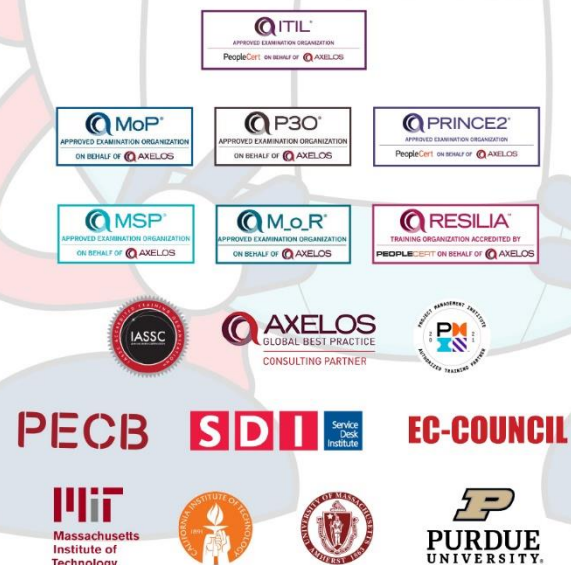
Technology Partner

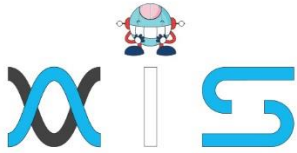


Freshworks

With over 40,000 customers, Freshworks is a business solutions software provider with products ranging from IT helpdesk and service desk, customer relationship management, live chat, marketing automation, phone system, and HR.

Partners & Affiliates





The program presented, as well as a wide range of programs are products of the partnership of AIS, SAS Management, Inc., and Simplilearn. With a common goal of providing the best practice of facilitating learning with an array of choices available in the online platform in this time of digitization.

Office Addresses

NXT AIS Inc.

Juan Antonio III Building
315 Maysilo Circle, Mandaluyong, Philippines

SAS Management, Inc.

- **Head Office**

Unit 1602 Cityland 10 Tower
2 6815 HV dela Costa cor Ayala Avenue
Makati City, Philippines

- **Branch Office**

Unit 204 Villa Building
Jupiter St. corner Makati Avenue
Makati City, Philippines

- **Branch Office**

Room 201 2nd floor OLS Building
443 Gorordo Avenue., Brgy. Kamputhaw
Cebu City, Philippines

- **Branch Office**

Malaysia - SAS Management
Sdn Bhd 6f-16, IOI Business Park,
Persiaran Puchong Jaya
47170, Selangor

Simplilearn

- **Simplilearn Americas, Inc Pvt Ltd.**

201 Spear Street, Suite 1100,
San Francisco, CA 94105 United States

- **Simplilearn Solutions Pte Ltd.**

NALANDA 53/1 C, Manoj Arcade, 24th Main Rd,
Sector 2, HSR Layout, Bengaluru
560102, Karnataka, India.

- **Simplilearn Singapore**

#14-302, The Plaza, 7500A Beach Rd,
Singapore 199591