

Foundational Certification in Full Stack Development



In collaboration with

Electronics & ICT Academy IIT Guwahati

Offering live interactive sessions covering the latest Full Stack topics, including MongoDB, Express JS, ReactJS, NodeJS and many more.

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About the Program



Embark on a transformative journey in Full Stack Development with our Foundational Certification Program, a collaboration between E&ICT Academy IIT Guwahati, and SkillVertex. This program equips aspiring developers with a comprehensive skill set, covering HTML, CSS, JavaScript, Git, React, Angular/Vue.js, Node.js, Express.js, SQL, MongoDB, and more. With experienced instructors and a supportive learning environment, you'll build a portfolio of projects that showcase your skills. Whether you aim to join a prestigious tech company or launch your projects, this certification program will be your path to success in the world of Full Stack Development.

Key Features of the program

Program completion certificate from E&ICT Academy IIT Guwahati.

Live interactive sessions covering the latest Full Stack topics

Improve your skills with more than 10 practical assignments in a variety of industries.

A total of 5 capstone projects.

A total of 80+ hours of sessions

Skillvertex's career assistance to help you drive the attention of top hiring companies.

About E & ICT Academy IIT Guwahati



As an initiative of the Ministry of Electronics & Information Technology (MeitY), the Academy was set up at IIT Guwahati under the scheme of "Financial Assistance for Setting up Electronics and ICT Academies". On 2015 the project started at IIT Guwahati and the Academy was inaugurated by Hon'ble Prime Minister Shri Narendra Modi on 19 January, 2016. The objective of the Academy is to provide skill training to the Faculty Members (Engineering & Non-engineering) in the area of recent trends in engineering & ICT application. The Academy is designing specialized modules for imparting quality training for enhancing employability and capacity building in the area of Electronics & ICT. In the past 7 years, the Academy has successfully conducted 350+ Faculty Development Programme through conventional classroom teaching and NKN virtual classroom mode in different institutes/Universities of North Eastern States in particular and a few in other states of India. Till date, the Academy has successfully trained 18000+ Faculty members. The Academy has also signed MoUs with Institutes/Universities for hosting the programs and for conducting hands-on sessions the Academy collaborated with Industries as Training/Industry Partners. The Academy is also offering online Advance Certification Courses in the area of Data Science, Artificial Intelligence & Machine Learning, Big Data, Cloud Computing, Full Stack, VLSI Design, and Management related courses and trained 2500+ graduates and working professionals. The Academy has also delivered training to Government officials from Assam Police and Indian Navy on Cyber Security & Forensics and Data Analytics & Sciences training 120+ officials.

Our Course Speaker



Dr. Gaurav Trivedi
Principal Investigator
E&ICT Academy IIT Guwahati



Dr. Gaurav Trivedi is an Associate Professor in the Department of Electronics and Electrical Engineering, IIT Guwahati and is also the Principal Investigator of the Electronics & ICT Academy which is an initiative of Ministry of Electronics and Information Technology (MeitY), Govt. of India which was inaugurated by our honorable Prime Minister Shri Narendra Modi on 19th January, 2016 with a vision to create skilled human resource in the domain of Electronics and Information Technology to support various government initiatives like "Digital India" and "Make in India". He has completed his Masters from IIT Bombay in the field of Microelectronics and his PhD from IIT Bombay in Electrical Engineering in the field of VLSI CAD. He has over 7 Book and Book Chapter Publications, more than 50 Journal Articles, 86 Conference Proceedings, has been a Visiting faculty/ Expert in over 10 reputed institutes both national and international and has supervised more than 20 PhD students, 55 MTech students and over 90 B.Tech students. Under his supervision, E&ICT Academy IIT Guwahati has completed total 300+ skill development courses. He is an active member of various reputed academic activities in various organizations. He is also a member of IEEE and a reviewer of both National and International Journals and Conferences and is also a Core group member of Centre for Advanced Computing, and High-Performance Computing and FPGA Lab at IIT Guwahati and a Core group member of AUSHADHI, an Open-Source Drug Discovery Platform, at IIT Guwahati.

About SkillVertex



SkillVertex is an edtech organization that aims to provide upskilling and training to students as well as working professionals by delivering a diverse range of programs in accordance with their needs and future aspirations. With respect to the emerging industrial requirements and technologies, also assist in career development, additional counselling guidance and mentorship in the respective domains. This program is being delivered in partnership with Skillvertex by the Electronics & ICT Academy IIT Guwahati. Focusing on applied learning to have an instantaneous career impact, Skillvertex's immersive learning model, which has won multiple awards and is offered through live virtual classes.



Our Mentor



Soumya Ranjan Mohanty

Software Engineer

Microsoft

5+ years of experience



Hello, I'm Soumya, a seasoned Fullstack Software Development Engineer with a rich background in top-tier companies like Microsoft, Dell Technologies, JLL, Hasura, and more. I specialize in React, Node.js, JavaScript, MERN stack, DSA, and hold Google's Mobile Web Specialist certification. Proud Google India Scholar 2018, my technical articles have garnered 700K+ views. Passionate about mentoring, teaching, and guiding individuals on their placement journey.

Mainak Chakraborty

Software Engineer, SDE-3

ZOOM, Ex-walmart

6+ years of experience



I'm Mainak Chakraborty, a Frontend Engineer currently contributing to the innovation at Zoom. With over 6 years of experience in the field, I bring a wealth of knowledge gained during my tenure at Walmart and other industry-leading organizations. As a seasoned professional, my passion lies in crafting seamless user experiences and staying at the forefront of technological advancements.

Admission Process



The application process and eligibility criteria for the program

Application Process

Candidates can apply in three easy steps for this program:

1. Submit an application

Tell us about yourself and what drives you for enrolling in this program.

2. Application Review

Candidates will be shortlisted by an admission counselor according to their applications.

3. Admission

The program can be joined by selected candidates upon payment of the admission fee and an Admission test may be conducted for the same.

Talk to an Admissions Counselor

We have a team of dedicated admissions counselors to help guide you in the application process and related matters. They are available to:

- Address questions related to the application
- Help you better understand the program and answer your questions

Eligibility Criteria



This program is designed to teach Full Stack for beginners as well as professionals. It covers everything starting from the very basics, including HTML, CSS. So a coding background is not compulsory (although knowing a coding language like java, python or/c++ is an added bonus)

Demand for Full Stack Development

Businesses increasingly recognize the value of versatile developers capable of handling both front-end and back-end development tasks. This trend has led to a widespread adoption of Full Stack Development for building dynamic and scalable web applications.

Job Opportunities: Mastering Full Stack Development opens doors to over 100K+ job opportunities across various industries.

Average Annual Salary: Full Stack Developers command an attractive annual salary ranging from 6 LPA to 15 LPA

Technology Companies: From startups to established tech giants, technology firms rely on Full Stack Developers to create innovative web applications, software solutions, and digital products.

Career Outlook



After mastering Full Stack Development, you'll be poised to pursue a diverse range of job opportunities in web development and software engineering.

Here are some common roles you can explore:

Front-End Developer: As a Full stack developer, you'll be equipped to work as a front-end developer specializing in React, responsible for creating user interfaces and ensuring a great user experience.

Average Salary: 5-10 LPA

Back-End Developer: You can work as a back-end developer focusing on Node.js and Express.js to build server-side components and manage database interactions.

Average Salary: 6 -12 LPA

React Developer: Specializing in React development, these developers primarily work on creating and maintaining user interfaces for web applications.

Average Salary: 6 -10 LPA

Web Application Developer: Web application developers build, maintain, and enhance web applications using the MERN stack, taking care of both front-end and back-end components.

Average Salary: 8 -12 LPA

Learning Path Details



Module 1:

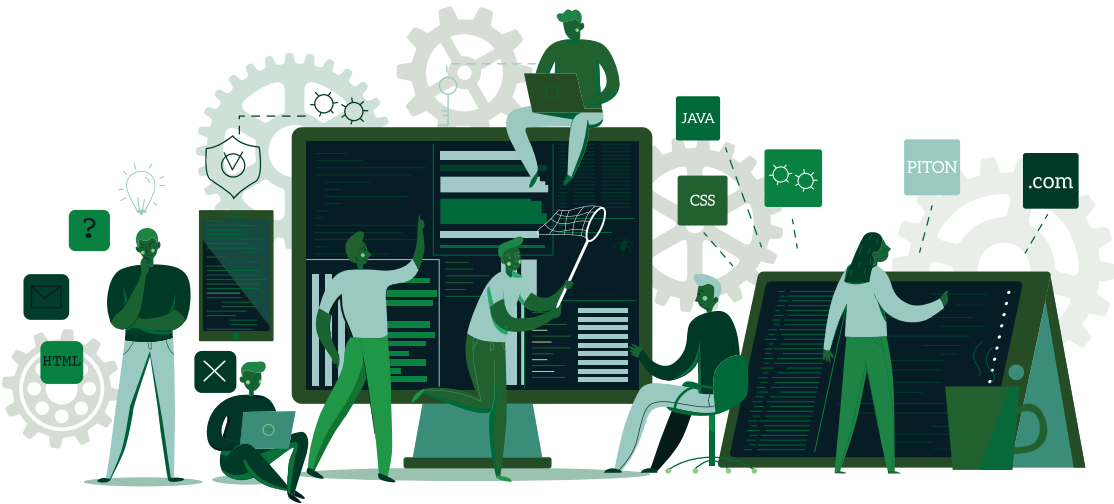
Introduction to Full Stack Development (4.5 Hours)

Introduction to Fullstack Web Development

Project Management

Cmd and Github

Assignment 1: Designing a Web application



Module 2:

HTML (6.5 Hours)

Introduction to HTML

HTML Tags

HTML Attributes

Meta Tags

Assignment 2: Create a web page with all HTML tags & attributes



Module 3:

CSS

(5.5 Hours)

Introduction to CSS

CSS Selectors Properties and Values

CSS Animation

CSS Frameworks

Assignment 3: Creating a Static Website

Module 4:

Frontend Development

(6 Hours)

Developing a website with HTML & CSS

Deployment & Hosting - GitHub & 000webhost

Classes and Functions

Assignment 4: Create and deploy a portfolio website

Module 5:

Javascript

(13 Hours)

Introduction to Javascript

Javascript Fundamentals

Objects and Datatypes

Classes and Functions

APIs and Promises

Javascript Modules

JS Events

Assignment 5: Create a ToDo List using JS

Assignment 6: Create a notes editor using JS

Module 6:

DBMS using MongoDB

(10 Hours)

Introduction to Databases

Data modeling

Relational & Non-relational Databases

MongoDB

Assignment 7: Create ERD & DB for an E-commerce Website

Module 7:

NodeJS

(10 Hours)

Introduction to NodeJS

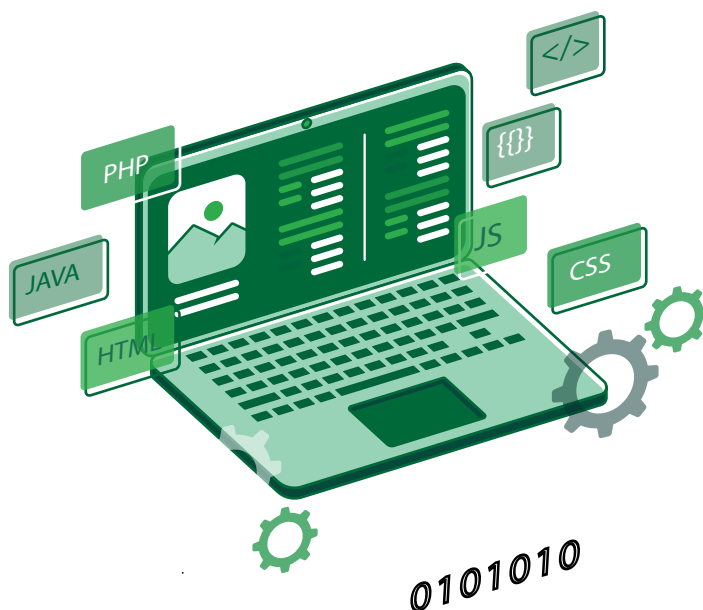
Setup NodeJS application using NPM

Callbacks and Events

File System, Buffers, and Streams

Objects and Modules

Assignment 8: Host JS website using NodeJS



Module 8: **ExpressJS**

(8 Hours)

Setting up ExpressJS

Restful APIs, HTTP Methods & Routing

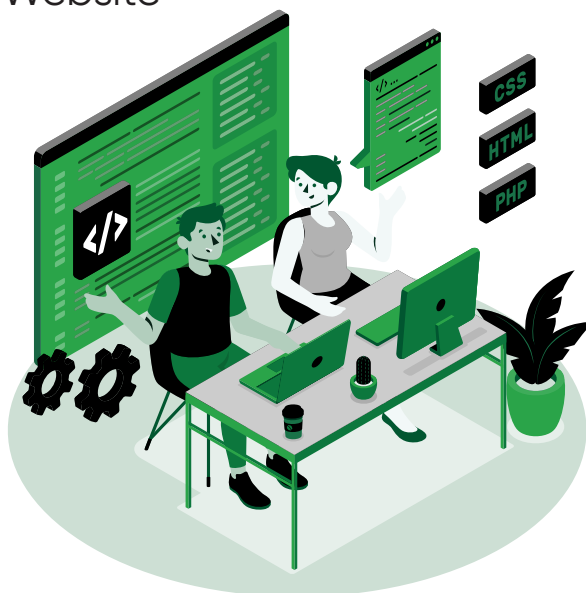
Templating

Data Handling & Database

Authentication using Cookies and Sessions

Assignment 9: Create Express APIs for

E-commerce Website



Module 9: **ReactJS**

(11 Hours)

Introduction to React, Architecture & Installation

JSX and Components

Props & State Management

Event Management • React Hooks

React Routing

Client and Form Programming

Assignment 10: Create a ToDo List App using React

Capstone Projects



E-Commerce Platform

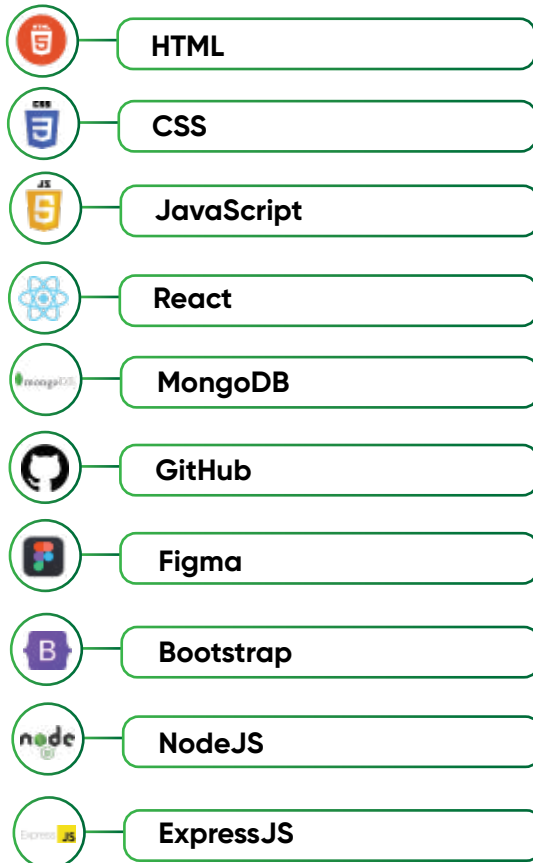
Real Time Chat Application

Social Media Dashboard

Create Music Streaming Service

Create Social Networking Application

Tools Covered



Placement Assistance



1. Resume Building Session

2. Soft Skill Session

3. 1:1 Mock Interview by Industry Expert

4. 1:1 Career Guidance

5. Interview in our Partnered Companies

Job Opportunities

Full-Stack Developer

Front-End Developer

Back-End Developer

MERN Stack Developer

React Developer

Node.js Developer

Web Application Developer

UI/UX Developer

MongoDB Architect

Testimonials



Sanjana Wadhwa
Web Developer
Katchin Tech RNI



Priya Pandey
Backend Developer
Talentship Global Advisory



SAGHANA SHREE R P
Backend Developer
Talentship Global Advisory



Gokul Biju
Full Stack Developer
Altos Technologies



Onesimus Chandra Pradhan
Front end developer
Cosmotech AI



Aman Jha
Associate Consultant
Oracle



Abhinav Prakash
Software Engineer
Cognizant



Sagar Gupta
Frontend Web Developer
MOLOG



Deepak Mohan
Graduate Software Engineer
The Access Group (UK)

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