Forsk
Coding School

Software Engineering Diploma



Learn. Build. Intern. Succeed.

A job-oriented diploma program by Forsk Coding School designed to build strong software engineering skills through practical learning, real projects, and industry-oriented training. After successful completion, learners can progress toward internship exposure with Forsk Technologies.

In Partnership with

Forsk Technologies

From AI to AGI – We Build What's Next

- Programming Foundations
- Frontend Development
- Backend APIs
- Databases
- Cloud & DevOps
- AI-Enabled Workflow
- Real Projects
- Internship Pathway

PROGRAM HIGHLIGHTS

- 9-12 Months
- Offline + Online
- Portfolio Building
- Beginner to Job-Ready

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Why Choose This Software Engineering Diploma?

Designed for learners who want practical skills,
real projects, and a clear pathway toward industry readiness.

1. Job-Oriented Curriculum

Learn technologies and workflows aligned with modern software roles.

2. Practical Learning

Build skills through labs, mini projects, and guided assignments.

3. Full-Stack Exposure

Cover frontend, backend, APIs, and databases in one structured journey.

4. Cloud & DevOps Awareness

Understand deployment, hosting, collaboration, and software delivery.

5. Portfolio Building

Complete real projects that strengthen your GitHub and portfolio.

6. Internship Exposure

Progress toward internship opportunities connected with Forsk Technologies.



What Learners Gain

- Strong programming foundations
- Confidence with modern tools
- Real project experience
- Better interview readiness
- Career-focused guidance

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Program Structure & Learning Journey

A structured roadmap that takes learners from fundamentals to projects, advanced development, and internship readiness.

01 — **Programming Foundations**
Basics of programming, logic, problem-solving, and core computer science concepts.
Month 1-2

02 — **Frontend Development**
HTML, CSS, JavaScript, responsive design, UI components, and React basics.
Month 3-5

03 — **Backend, APIs & Databases**
Server-side development, REST APIs, authentication, SQL, and NoSQL exposure.
Month 6-8

04 — **Software Engineering Core**
SDLC, Git workflow, testing, collaboration, documentation, and system thinking.
Month 9-10

05 — **AI + Cloud + Internship Pathway**
AI-assisted workflow, cloud awareness, DevOps basics, portfolio polish, and internship readiness.
Month 11-12

Student Deliverables

- Mini Projects
- Capstone Project
- GitHub Portfolio
- Resume Support
- Mock Interview Support
- Internship Pathway

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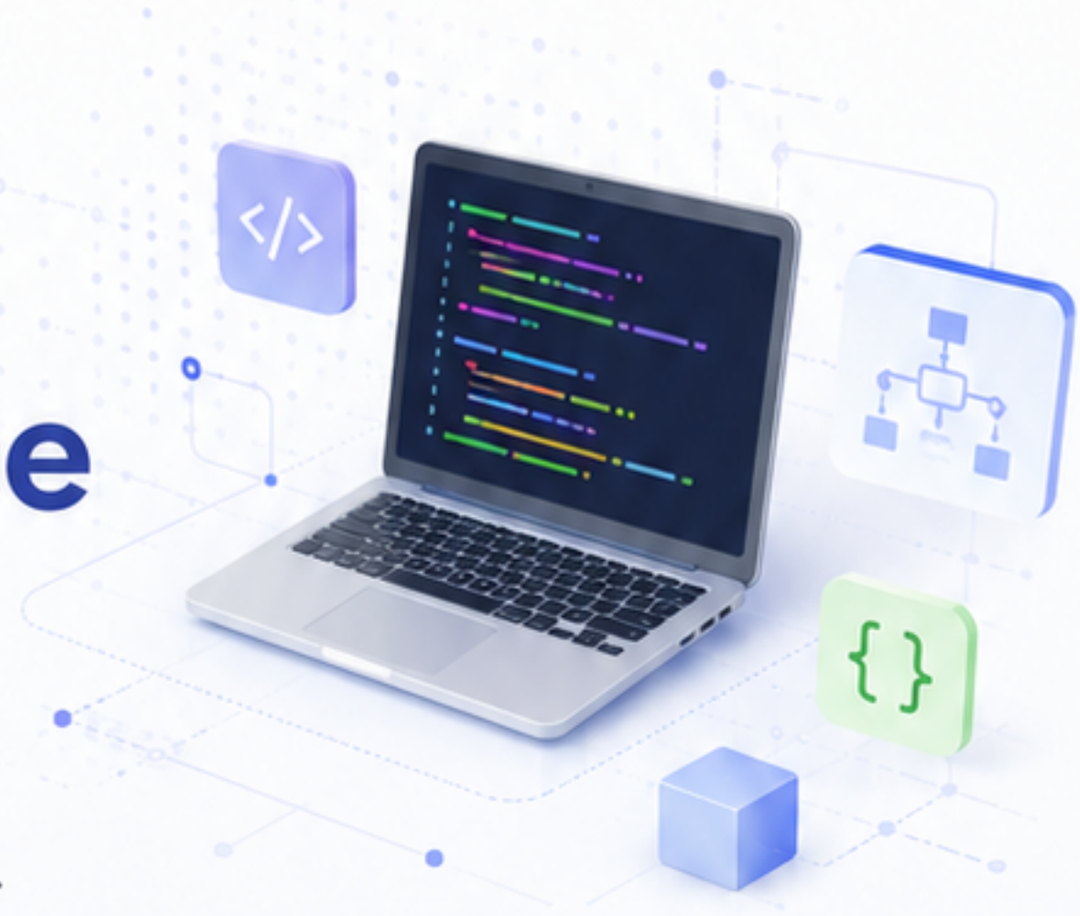
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Module 1:

Programming & Computer Science Foundations



Build the foundation every future software engineer needs before moving into modern application development.

01 Programming Logic

02 Algorithms

03 Data Structures Basics

04 Object-Oriented Programming

05 Git & GitHub

06 Database Fundamentals

07 Operating Systems Basics

08 Networking Basics

HANDS-ON PRACTICE

- Coding Exercises
- Logic Building
- Debugging Tasks
- Mini Assignments

MODULE 1 ROADMAP

Programming Logic → Algorithms → Data Structures Basics → OOP → Git & GitHub → Database Fundamentals → OS Basics → Networking Basics

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Module 2:

Frontend Development & User Interface Skills

Learn how to build responsive, visually appealing, and user-friendly interfaces using modern frontend technologies.



1. HTML

2. CSS

3. Responsive Design

4. JavaScript ES6+

5. UI Components

6. Web Layout Systems

7. React Fundamentals

8. API Integration

9. User Experience Awareness

WHAT STUDENTS BUILD



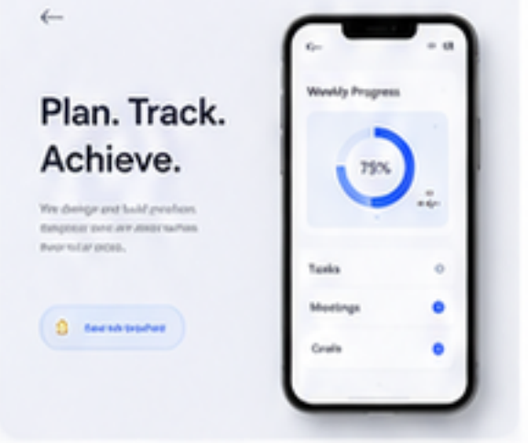
Portfolio Website



Landing Page



Dashboard UI



Responsive Web App

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Module 3:

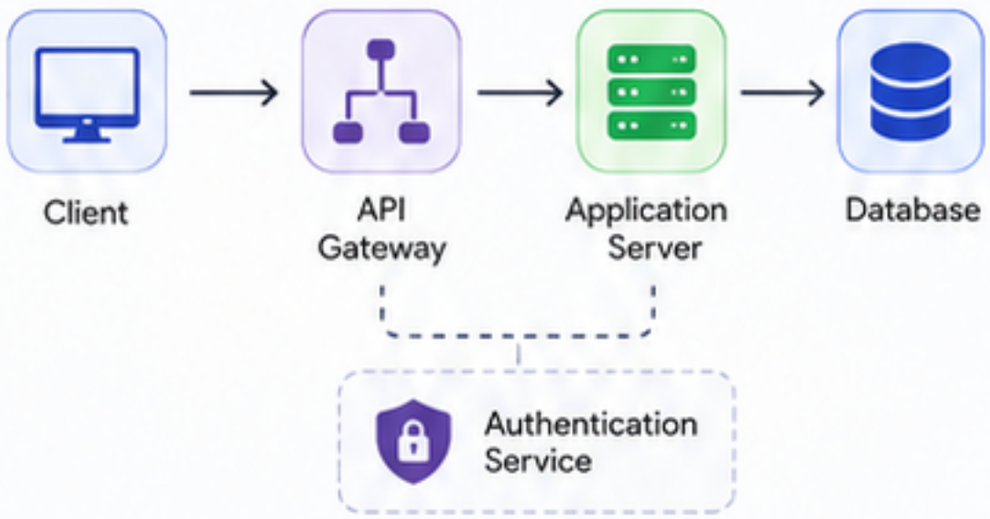
Backend Development, APIs & Databases



Understand how modern backend systems work, from server-side development and APIs to scalable databases and software engineering practices.

1. Server-Side Development
2. REST APIs
3. Authentication & Security Basics
4. Database Design Fundamentals
5. SQL / MySQL
6. MongoDB / NoSQL Exposure
7. Data Models & Schemas
8. Testing Basics
9. Scalable Application Thinking
10. Backend Architecture

Backend Architecture Overview



Example: User API Endpoints

Method	Endpoint	Description
POST	/api/users/register	Register a new user
POST	/api/users/login	User login
GET	/api/users/profile	Get user profile
PUT	/api/users/profile	Update user profile
DELETE	/api/users/:id	Delete user account

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Module 4:

Software Engineering Core Practices

Develop the habits, workflows, and professional engineering practices that support high-quality software delivery.



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01 SDLC Fundamentals



02 Version Control Workflow



03 Testing & QA Basics



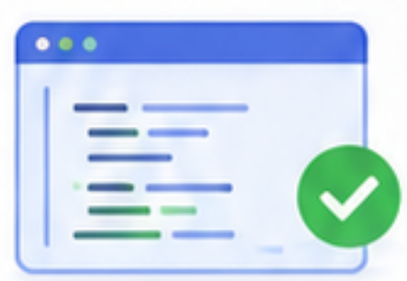
04 Agile & Scrum Awareness



05 System Design Basics



06 Clean Code Practices



07 Deployment Workflow



08 Collaboration & Documentation



PROFESSIONAL SKILLS IN PRACTICE

- Team Collaboration
- Code Review
- Debugging Mindset
- Problem Solving
- Career Readiness

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Module 5:
AI, Cloud & DevOps Readiness



Explore the tools, workflows, and cloud-based practices that help modern developers move from code to deployment.

01 AI-Assisted Development

02 Prompt-Aware Workflow

03 Cloud Fundamentals

04 Linux / Command-Line Awareness

05 CI/CD Awareness

06 Docker Basics

07 Deployment Workflow

08 Monitoring Basics

FROM CODE TO PRODUCTION

Build — Write clean code and structure it the right way.

Test — Validate functionality and ensure quality through testing.

Deploy — Release your application to the cloud environment.

Monitor — Track performance, logs, and system health in real-time.

Improve — Analyze insights and continuously optimize your application.



Capstone Product Lab –

Students combine programming, frontend, backend, cloud, and workflow knowledge to create a practical end-to-end software project.

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Internship Pathway with Forsk Technologies



At Forsk Coding School, learning goes beyond the classroom. After completing the Software Engineering Diploma and meeting program requirements, learners can progress toward internship exposure with Forsk Technologies.

01 — Learn
Gain strong software engineering foundations.

02 — Build Projects
Apply knowledge through guided projects and hands-on work.

03 — Assessment
Demonstrate skills through practical review and evaluation.

04 — Internship at Forsk Technologies
Get real-world exposure with live projects and mentorship.

05 — Career Growth
Strengthen your portfolio, confidence, and industry readiness.

Company Spotlight

Forsk Technologies

From AI to AGI – We Build What's Next

Forsk Technologies is a software development company helping businesses build scalable, reliable, and future-ready digital solutions.

Core Services

- Custom Software Development
- Web Application Development
- Mobile App Development
- Cloud / DevOps Consulting
- UI/UX Design & Prototyping
- Maintenance & Support

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Start Your Software Engineering Journey

Build in-demand skills, work on real-world projects, and take the next step toward internship readiness with **Forsk Coding School** and **Forsk Technologies**.



Eligibility

- Students after 12th
- College Students
- Graduates
- Freshers
- Career Switchers

What You Get

- Diploma Certificate
- Real Project Experience
- Portfolio Building
- Career Guidance
- Interview Support
- Internship Pathway

Admissions Process

1. Counseling
2. Assessment & Guidance
3. Enrollment

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Train with **Forsk Coding School**. Learn with projects.
Move toward industry exposure with **Forsk Technologies**.

LEARN. BUILD. INTERN. SUCCEED.

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