

# 9-Month Advanced Industry Immersion Program

## (AI-Driven Product Development & Full-Stack Internship)

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### Program Overview

The **9-Month Advanced Industry Immersion Program** is a comprehensive, industry-integrated training journey designed to bridge the gap between **academic knowledge and real-world software development**. This program emphasizes **AI-augmented learning, mentor-led product development, and hands-on internship experience** to prepare learners for professional software engineering roles.

This program is best suited for learners who want **deeper industry exposure, team-based product development, and strong practical experience** before entering the job market.

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### Program Duration

**Total Duration:** 9 Months

- **3 Months:** AI-Augmented Projects & Core Theory
- **3 Months:** Mentor-Led In-House Product Development (Agile Mode)
- **3 Months:** Industry Internship (AI or Full-Stack Track)

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### Curriculum Structure

#### 1 Programming & Software Engineering Foundations

Strengthen core concepts essential for scalable software development:

- ✓ Programming Basics: Data Types, Loops, Conditions
- ✓ Functions & Modular Code Design
- ✓ Arrays & Logical Problem Solving
- ✓ Object-Oriented Programming (OOPs)

### NOTE:

Last 1 month Claude AI + Bitbucket subscription to be added in the bucket.

- ✓ Clean Code Principles

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## 2 Web Technologies & UI Engineering

Design modern, responsive, and maintainable user interfaces:

- ✓ HTML5, CSS3
- ✓ JavaScript (ES6+), TypeScript
- ✓ Tailwind CSS & Bootstrap
- ✓ UI/UX Best Practices

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## 3 Advanced Frontend Development

Gain expertise in industry-demanded frameworks:

- ✓ Angular or React, Component Architecture
- ✓ RxJS & Reactive Programming & State Management Concepts
- ✓ API Integration & Performance Optimization

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## 4 Backend & Microservices Engineering

Build enterprise-ready backend systems:

- ✓ Node.js & NestJS, RESTful API Design
- ✓ Microservices Architecture
- ✓ Authentication & Authorization
- ✓ Error Handling & Logging

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## 5 Database & Data Management

Work confidently with production-grade databases: -

- ✓ MySQL / PostgreSQL
- ✓ Schema Design & Query Optimization Basics
- ✓ Data Integrity & Security

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## 6 Product Development (In-House | Agile Mode)

Experience real-world software product development:

- ✓ Mentor-led Agile teams (5 + 1 folks)
- ✓ Sprint Planning, Reviews & Retrospectives
- ✓ Feature Development & Bug Fixing
- ✓ Code Reviews & Quality Standards
- ✓ Deployment Readiness

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## 7 Software Development Practices

Understand professional workflows and delivery pipelines:

- ✓ Agile & Scrum Methodology
- ✓ DevOps Fundamentals
- ✓ CI/CD Concepts
- ✓ Environment & Release Management

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## 8 Version Control & Team Collaboration

Collaborate like an industry professional:

- ✓ Git Fundamentals
- ✓ Branching Strategies
- ✓ Pull Requests & Code Reviews
- ✓ GitHub / GitLab Workflows

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## Learning Methodology

- Mentor-led classroom & live sessions
- AI-assisted learning & code analysis
- Real-world product development
- Continuous assessment & feedback
- Peer collaboration & reviews

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## Internship Experience (3 Months)

- Internship in AI or Full-Stack track
- Real project contribution
- Agile team exposure
- Internship & Experience Certificate
- Industry-ready project portfolio

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## Key Highlights

- Advanced industry immersion
- Product development experience
- Small batch size (Max 5 students per mentor)
- Strong portfolio & GitHub profile
- Career guidance & interview preparation

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## Eligibility

- Final-year college students (CSE/IT preferred)
- Fresh graduates
- Career switchers

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## Career Outcomes

After completing this program, learners can confidently apply for:

- Junior Software Engineer
- Frontend Developer
- Backend Developer
- Full-Stack Developer

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