

6-Month Advanced Industry Immersion Program

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

Program Overview

The **6-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.

Program Duration

Total Duration: 6 Months

- **2 Months:** AI-Augmented Projects & Core Theory
 - **1 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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