



# The Programming Masterclass

**A 6-Month Professional Certificate in Programming  
Fundamentals, Languages & Full-Stack Development**

From Logic to Launch: Master the Art of Software Development

**AI EXPERT ACADEMY**





## SPEAK THE LANGUAGE OF INNOVATION.

In a world driven by technology, coding is the new literacy. It's the power to build websites, create apps, automate tasks, analyze data, and bring innovative ideas to life. Whether you're starting from scratch or looking to professionalize your skills, mastering programming is key to unlocking countless opportunities.

This intensive 6-month (24-week) program is your comprehensive bootcamp for becoming a proficient software developer. We cover everything from foundational logic to building complete, modern applications.

**Learn to think like a programmer, solve complex problems, and build the software that shapes tomorrow.**





# BUILDING EXPERTISE: FROM FUNDAMENTALS TO FULL-STACK

Our hands-on, project-based curriculum guides you through the essential layers of software development:

<b>Part 1:</b> <b>Programming Foundations</b> (Weeks 1-6)	<b>Computational Thinking</b> Core Concepts Introduction to Python Version Control Debugging Techniques
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<b>Part 2: Object Oriented &amp; Data Structures</b> (Weeks 7-12)	<b>Object-Oriented Programming (OOP)</b> Fundamental Data Structures Core Algorithms Memory Management Concepts
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<b>Part 3: Web Development Essentials</b> (Weeks 13-18)	<b>Front-End Development</b> CSS Back-End Development Server-side logic Handling HTTP requests & responses. Introduction to RESTful APIs.	<b>HTML</b> <b>JavaScript</b>
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<b>Part 4:</b> <b>Databases, Deployment &amp; Capstone</b> (Weeks 19-24)	<b>Databases</b> NoSQL Software Development Lifecycles Testing Fundamentals Deployment Basics Capstone Project	<b>SQL</b>
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# This certificate is ideal for:

- Aspiring Software Engineers & Web Developers.
- Career Changers entering the tech industry.
- Students seeking practical, job-ready programming skills.
- Professionals (Analysts, Scientists, Designers) needing to automate tasks or build tools.
- Entrepreneurs wanting to build their own tech products.
- Anyone passionate about problem-solving and creation.

## Key Skills You Will Master:

- Languages: Python, Java/C++, HTML, CSS, JavaScript, SQL.
- Paradigms: Procedural, Object-Oriented Programming (OOP).
- Core CS: Data Structures, Algorithms, Complexity Analysis.
- Web Tech: Front-End Frameworks (Intro), Back-End Development, REST APIs.
- Tools: Git/GitHub, Debuggers, IDEs (e.g., VS Code).
- Databases: Relational (SQL) & NoSQL Concepts.
- Methodologies: Agile, Testing, Deployment Basics

# From Idea to Impact: Your IoT Journey Starts Here

*The demand for skilled IoT professionals is exploding. Gain the hands-on expertise to design, develop, and deploy innovative solutions that shape our connected future.*

**Enroll Now – Connect Your Potential!**



TAKE YOUR DEVICE



SCAN THE QR



MAKE THE PAYMENT



GET THE SERVICE



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