

# Deeyan Vadwala

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## SUMMARY

Aspiring Software Development Engineer with hands-on experience in building AI-driven and cloud-based applications using Python, Flask, and AWS. Strong foundation in algorithms, distributed systems, and scalable architecture. Passionate about solving complex problems and delivering impactful solutions in collaborative, fast-paced environments.

## EDUCATION

### Northeastern University

*Master of Science in Computer Science*

Boston, MA

*Sep 2025 – Dec 2027*

### Indus University

*Bachelor of Technology in Computer Science and Engineering*

Ahmedabad, India

*Oct 2021 – May 2025*

**Relevant Coursework:** Data Structures and Algorithms, Distributed Systems, Database Systems, Cloud Computing, Machine Learning

## EXPERIENCE

### Cyber Security Intern

June 2024 – July 2024

*Prodigy InfoTech*

India

- Developed Python-based encryption and steganography tools to enhance data confidentiality and integrity.
- Implemented a password entropy checker and a network packet analyzer to identify security vulnerabilities.
- Demonstrated system security principles through simulated keylogging and penetration testing exercises.
- Strengthened secure coding and debugging skills applicable to scalable, production-grade software systems.

## PROJECTS

### Phoenix – AI Voice Assistant | *Python, Flask, Speech Recognition, LangChain, LLaMA 3*

GitHub

- Engineered a modular voice-controlled assistant capable of executing system and web automation tasks.
- Integrated LangChain with LLaMA 3 for intelligent Q&A and dynamic conversation flow.
- Architected Flask-based microservices ensuring extensibility and low-latency API responses.

### Virtual Closet App – AI-Powered Outfit Planner | *Flutter, Firebase, Flask, OpenWeatherMap API*

GitHub

- Developed a cross-platform Flutter application integrated with Firebase for real-time data storage.
- Built Flask backend with RESTful APIs for AI-driven outfit classification and user authentication.
- Integrated weather-based styling and event scheduling, enhancing personalization and UX.

### AgroRishi – Smart Farming Assistant | *Flask, ML, IoT, LLaMA 3, Bluetooth*

GitHub

- Developed IoT-based farming assistant for monitoring soil and weather data in real time.
- Implemented ML models for crop health and disease prediction, improving yield forecasting accuracy.
- Integrated LLaMA 3 chatbot for multilingual agricultural support using Flask microservices.

## CERTIFICATIONS

**AWS Academy Graduate – Cloud Foundations**

**AWS Academy Graduate – Machine Learning Foundations**

**Tutodude Flutter Course**

**100 Days of Code: The Complete Python Pro Bootcamp**

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, SQL (MySQL), Dart

**Frameworks:** Flask, Flutter, JUnit

**Cloud Platforms:** AWS (EC2, S3, RDS, Lambda)

**Developer Tools:** Git, VS Code, PyCharm, IntelliJ, Visual Studio

**Libraries:** pandas, NumPy, Matplotlib

**Concepts:** OOP, REST APIs, CI/CD, Scalable Systems, Data Structures, Algorithm Optimization