

Deeyan Vadwala

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EDUCATION

Northeastern University

Master of Science in Computer Science

Boston, MA

Sep 2025 – Dec 2027

Coursework: Programming Design Paradigm, Database Management Systems, Foundations of Artificial Intelligence, Algorithms

Indus University

Bachelor of Technology in Computer Science and Engineering

Ahmedabad, India

Oct 2021 – May 2025

Coursework: Programming For Problem Solving, Object Oriented Programming, Database Management Systems, Data Structures and Algorithms, Software Engineering

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL, Dart, HTML, CSS

Frameworks & Libraries: Flask, JUnit, Flutter, Pandas, NumPy, LangChain, Scapy, Bootstrap, REST APIs

Databases: MySQL, PostgreSQL, MongoDB, NoSQL

Cloud & DevOps: AWS (EC2, S3, RDS, Lambda, IAM), Docker, Jenkins

Developer Tools: Git, Postman, Jira, VS Code, IntelliJ, PyCharm, Eclipse, Visual Studio, Android Studio, Linux

EXPERIENCE

Software Engineer Intern

Prodigy InfoTech

June 2024 – July 2024

India

- Implemented data protection mechanisms using cryptography and image encryption via pixel-level RGB transformations, efficiently processing 100K+ pixels and characters per execution.
- Designed network packet analyzer using Scapy to capture and analyze 1K+ live IP packets per session, extracting source/destination, protocol, and payload data to support network security monitoring and threat detection.
- Automated validation and sanitization of network traffic logs, reducing manual verification effort by 28%.
- Optimized encryption and packet processing routines for performance and memory usage, improving runtime efficiency by 18%.
- Documented system architecture and workflow, enabling smooth knowledge transfer and onboarding for future interns or team members.

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