

Dulani Palihapitiya

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EDUCATION

Texas Tech University, Lubbock, TX

Jan 2022 – May 2025

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 4.0

SKILLS

Programming Python, C, Java, HTML, CSS, React, JavaScript, SQL, Docker, Web Development

Coursework: Data Structures, Algorithms, Relational Databases, Software Engineering, Machine Learning

EXPERIENCE

IT Support Assistant, Texas Tech University – Lubbock, TX

May 2024 – Present

- Provided technical support for software, hardware, and networking issues ensuring prompt resolution and minimal downtime.
- Communicated security practices to staff to help prevent phishing and social engineering attacks while adhering to institutional security protocols.

Full Stack Developer Intern, Align With Me (GitHub Open Source) – Remote

May 2024 – Sept 2024

- Collaborated with a team of engineers on designing a cross-platform web and mobile application to improve citizen engagement in social and political issues. (github.com/DigitalDemocracyProject/alignwithme)
- Redesigned the front-end using Flutter, ensuring cross-device compatibility and enhancing form functionality.
- Contributed to developing RESTful APIs with Spring Boot, supporting CRUD operations for application data.

Software Engineer Fellow, Headstarter – Remote

July 2024 – Aug 2024

- Built 5 projects in 5 weeks using React JS, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints and incorporating CI/CD practices for iterative deployment.
- Implemented unit tests to ensure code quality and maintainability, and utilized Git for version control, ensuring efficient collaboration and streamlined workflows during the team projects.
- Collaborated with 2 fellows to build and deploy a SaaS product that generates dynamic flashcards based on any topic using OpenAI API.
- Deployed ProPathway job application tracker that allows users to paste job descriptions to generate AI resume tips and interview prep questions. Developed in 2 weeks in a team of 3 with 50+ users waitlisted.

PROJECTS

RaiderNav, Campus Navigation Website

- Developed a campus navigation website for Texas Tech University students with campus-specific directions and a searchable database of campus resources undergoing a full development cycle.
- Designed an interactive user interface using Figma and React, incorporating Mapbox API to generate a searchable campus map and directions with time estimates.

Sign AI, ASL Detection

- Developed a Convolutional Neural Network (CNN) model to detect and classify American Sign Language alphabet hand signs using Python, TensorFlow/Keras, and OpenCV for computer vision.
- Built a real-time detection system capable of classifying 24 ASL letters (excluding J and Z) and achieved 92% accuracy on the test data using model optimization and preprocessing techniques.

Cinema Connect, Movie Booking System

- Built a movie booking website with the backend development team using JavaScript and Firebase as the database to store and retrieve movie and booking details.
- Led team of 6, managing communication, task delegation, and progress tracking via Jira.