Bhabishya Shrestha

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Education

The University of Texas at Dallas — Richardson, TX

Master of Science in Computer Engineering (Fast Track), GPA: 3.60 — May 2025
Bachelor of Science in Computer Engineering (Cum Laude), GPA: 3.78 — May 2024

Skills

Languages & Frameworks: Python, JavaScript/TypeScript, Kotlin, NodeJS, RESTful API, GraphQL, Jetpack Compose, React
Cloud & DevOps: AWS (Amplify, Lambda, DynamoDB, Cognito, CloudWatch, S3), Git, Jenkins, CI/CD, Linux/UNIX
Databases: PostgreSQL, MySQL, DynamoDB, MongoDB; Database Administration
Tools & Methodologies: Agile/Scrum, Postman, TDD/BDD, Object-Oriented Design
Certifications: AWS Cloud Practitioner, Agile Foundations (AFC-AICI)

Work Experience

Solutions Engineer — Allegion US, Austin, TX — May 2025 – Present

- Onboard and train B2B customers on REST APIs and SDKs for security solutions, serving as the technical subject matter expert for mobile credential platforms.
- Perform root cause analysis for customer-escalated issues across distributed cloud and mobile platforms, collaborating with engineering to ensure system stability and define permanent fixes.
- Enhance API and SDK documentation for mobile credential and residential platforms, incorporating B2B client feedback to streamline partner integration and improve developer experience.

Mobile Engineer Intern — Accessibility Team — Fidelity Investments, Westlake, TX — Jun 2024 – Aug 2024

- Produced reusable Jetpack Compose components and automated accessibility lint rules, improving UI consistency and secure-coding standards across an internal Android app.
- Collaborated cross-functionally using JIRA and Agile standups, triaging accessibility issues raised by different teams.
- Drove Agile story refinement with product, design, and QA; led peer reviews emphasizing performance, accessibility, and WCAG compliance.

Enterprise Technology Platform Intern — Southern Glazer's Wine & Spirits, Richardson, TX — May 2023 – Aug 2023

- Performed root cause analysis for REST API defects in production Java microservices, reducing incidents across nationwide distributor platforms.
- Strengthened CI/CD pipelines using Jenkins and JUnit to automate testing and support reliable code releases to production environments, increasing code coverage from 65% to 88%.
- Pioneered a sentiment analysis proof-of-concept, combining weather data and social media insights to optimize product distribution.

Co-Founder & Full Stack Developer — Hidden Gems (Startup) — Richardson, TX — Aug 2022 – Mar 2024

- Architected a cloud-native marketplace that matches local restaurants with businesses for catering, handling full lifecycle from concept to launch.
- Designed GraphQL schema and REST endpoints, implemented order management flows, and enforced role-based access with AWS Cognito.
- Engineered and maintained a resilient AWS backend, built CloudWatch dashboards to monitor system health, latency, and error rates.

Projects

Breast Cancer Research RAG Chatbot — qoltbot.netlify.app

- Integrated OpenAI-based LLM models with FastAPI to offer quick, data-backed responses.
- Built a secure React front end connected to AWS S3 for knowledge base and Cognito for authentication.

Aura Finance — aura-finance-tool.vercel.app

- Architected a full-stack personal finance dashboard using React, Vite, and Supabase (PostgreSQL), deployed globally with Vercel CI/CD.
- Implemented secure OAuth and real-time data sync with Supabase Auth, utilizing Row Level Security (RLS) for multi-tenant data isolation.

Motherboard Identifier — 1st Place, UT Design Expo — tinyurl.com/motherboard-inspector

- Engineered an automated inspection tool in Python using OpenCV and Tesseract, achieving 100% text-recognition accuracy on 300+ motherboard images.
- Packaged pipeline into a cross-platform CLI, enabling technicians to batch-process images locally on Windows and Linux.