

ABDUL RAHMAN HUSSAIN SIDDIQUE

☎ +1 (972) 207-1944 ✉ arahmanhs02@gmail.com 🌐 venaxin.github.io/Portfolio-2025
in linkedin/in/abdul-rahman-hussain 🐙 github.com/venaxin

EDUCATION

University at Buffalo - The State University of New York

Jan 2025 – Expected May 2026

Master of Science: Computer Science

Buffalo, NY

PROFESSIONAL EXPERIENCE

Youro Telehealth

Aug 2025 – Dec 2025

Software Engineering Intern

Buffalo, USA

- Engineered a real-time chat system using **STOMP over WebSockets**, resolving a critical multi-device synchronization bug by implementing **user-scoped subscription paths** and a hybrid REST-to-WebSocket architecture.
- Architected an interactive symptom tracker using **React Native Animated.View slideshows**, resolving stale state closures in **PanResponder** via **useRef** hooks to ensure responsive gesture handling.
- Optimized network performance by implementing **in-flight request deduplication** and **TTL-based caching** in a generic TypeScript ApiClient; established a robust testing suite using **Jest** and native function mocking.
- Stabilized the **Java Spring Boot** backend by fixing 500 errors through **just-in-time subscription provisioning** and implemented a **sliding window approach** for database normalization to prevent data overflow.

Goodz

July 2023 – Dec 2024

Software Developer

Hyderabad, India

- Engineered a **high-performance web component** to display thousands of data records, implementing virtualization and **WCAG accessibility**, achieving a **90% improvement in load times** over third-party libraries.
- Developed a **personalized catering recommendation algorithm**, suggesting menu bundles based on event size and preferences, resulting in a **25% increase in average order value**.
- **Owned the end-to-end migration** of a legacy platform to a modern **Angular framework** and integrated **real-time order tracking** using **WebSockets**, enhancing system scalability.
- Spearheaded a **React Native mobile app overhaul**: integrated **Firebase push notifications**, resolved release-blocking keystore errors, and **reduced APK size by 24.5%** using **ProGuard**.

SOFTWARE PROJECTS

Lock-IN 🔗 lockin.nyc | Python, Flask, Gemini AI, Google Calendar API

Nov 2025

- **Architected a full-stack AI focus coach** using **Gemini Generative AI** to classify tasks and **predict procrastination risk**, delivering real-time, adaptive coaching insights via a Flask backend.
- Engineered a **bidirectional Google Calendar sync** using OAuth and integrated a **smart notification system** using the browser Notification API to protect user productivity streaks.

HealthAI Connect 🤖 | Python, Flask, NLP, REST API

Nov 2023

- Designed and built a **full-stack healthcare platform** integrating **ML and NLP models** to power a diagnostic service and an **NLP-driven chatbot** for patient-provider interaction.

Clarity Planner 🔗 | Firebase, Vanilla JS, Event-Driven Architecture

Aug 2025

- Engineered a **real-time, event-driven application** using **Google Firebase** for instantaneous cross-device data synchronization, utilizing **vanilla JS** to manage state without external frameworks.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, SQL, HTML/CSS

Systems & Backend: Node.js, Express, Docker, Firebase, Webhooks, REST APIs

Frontend: React, React Native, AngularJS, Three.js, Figma

Developer Tools: Git, Postman, Jest, Cypress, Cursor, Windsurf

CERTIFICATIONS

- Web Development Bootcamp - Udemy (Angela Yu)
- DSA Essentials Bootcamp - GDG MAD & LetsUpgrade