Likhit Vyas Yarramsetti

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EDUCATION

Arizona State University — Tempe, AZ
M.S., Robotics & Autonomous Systems (Artificial Intelligence) — Aug 2024 - May 2025
B.S., Computer Science (*GPA 3.76*) — Aug 2020 - May 2024

EXPERIENCE

Software Engineer @ Quantiperm — Chandler, AZ | Jun 2025 - Present

- Designed and implemented **C++** embedded software and **RESTful APIs** on Raspberry Pis for real-time metabolic monitoring and inline carbonation systems, all in **Linux**-based environments for development and deployment
- Engineered system communication layers using **GPIO**, **PWM**, **I²C**, and implemented **Modbus** interfaces over **TCP**
- Developed touchscreen and web UIs with **React.js** and mobile apps in **React Native** to monitor these systems, enabling real-time sensor data visualization
- Optimized **React** UIs using tools like **react-scan**, re-engineering **state management** and eliminating unnecessary re-renders, achieving near-instant input responsiveness and significantly improving GUI performance
- Leveraged AI-assisted **IDE** tools like **Cursor** and **Copilot** to speed development, without compromising code quality

Software Engineer Intern @ Edwards Lifesciences — Irvine, CA | May 2024 - Aug 2024

- Collaborated in an **Agile Scrum** environment utilizing the **C# .NET ecosystem** and **Azure DevOps** to develop the software inside **HemoSphere**: a hemodynamic patient monitoring system used in 5000+ hospitals around the world
- Employed **C#**, **WPF**, and **gRPC,** with **MVVM** approach to implement the GUI and algorithm integration of a new feature: the detection of **SAS (Severe Aortic Stenosis)** in patients
- Sole developer of MSAS (mock sAS server): a test tool developed with **gRPC** and **Python** used by the QA teams to test the SAS Detection feature
- Crafted a **Python** automation script that saved 70+ hours of manual labor by employing **natural language processing** to add trace relations for over 5000 SRD, SRS, and SDD documents in **PTC Integrity**, a software that records system and software requirements ensuring traceability and compliance (used by the FDA to review new releases).

Computer Science Instructor @ iCode Chandler — Chandler, AZ | Aug 2023 - Mar 2024

- Taught children of ages 6-14 introductory robotics engineering concepts, coding fundamentals with Scratch/Vex Go, web development with **HTML/CSS/JavaScript**, and **Data Structures & Algorithms** with **Python**.

Software Engineer Intern @ IQM Corporation — Remote | May 2022 - Aug 2022

- Crafted modern, performant, reliable code in **TypeScript, React.js, Redux, SASS** for the firm's flagship project: a suite of ad-campaign management web applications
- Collaborated in an agile scrum environment leveraging **Git, BitBucket, Jira, and Jenkins** for streamlined project management and version control
- Implemented critical UX features and bug fixes, resulting in significant improvements to clients' user experience
- Developed a complete overhaul of the main lead generation website (iqm.com) with **Remix.js** and **Bootstrap**

PROJECTS

(See more at https://vyas.app/projects)

ASU Course Tracker (https://vyas.app/projects/asu-course-tracker)

- A **React Native** mobile app with a **C# .NET Core REST API** and **PostgreSQL** backend that scrapes ASU data using **Playwright,** and lets students at ASU track the number of seats available for any course and receive notifications.
- Deployed infrastructure with **Docker containers** on **GKE** (Google **Kubernetes** Engine), using **AWS RDS (Postgres)** and **AWS ECR** for image storage. **CI/CD** pipeline built with **GitHub Actions** for automated builds, tests, and deployments.
- Originally developed as a monolithic web app with the **MVC** approach using **Node.js**, **Express.js**, and **MongoDB**, authentication using **JSON Web Tokens** and texting to student users with **Twilio API**.

Twitch Chat Analyzer (HackSC Hackathon Project) (https://vyas.app/projects/twitch-chat-analyzer)

- A chrome extension that analyzes the chat of a Twitch live stream and displays the percentage positivity of the chat, helpful for Twitch moderators when managing a stream. **JavaScript** frontend, **Flask (Python)** backend, **Socket.io** for client/server communication, and **NLTK** for sentiment analysis of chats.

SKILLS: JavaScript, TypeScript, Python, C#, C++, Java, C, SQL, Node.js, React.js, Next.js, Express.js, Flask, D3.js, CI/CD, Jest, Cypress, Git, GitHub, BitBucket, Jira, Azure DevOps, Microsoft Office, MongoDB, PostgreSQL, Unix/Linux, Docker, Kubernetes