Likhit Vyas Yarramsetti

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EDUCATION

Arizona State University   Tempe, AZ
M.S., Robotics & Autonomous Systems (Artificial Intelligence)   Aug 2023 - 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**, **I^{2}C,** 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).

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** backend using **PostgreSQL** that students at Arizona State University can use to track the number of seats available for any course at ASU and have notifications sent to them.
- It was originally built as a web app as a monolithic backend with the MVC approach using **Node.js**, **Express.js**, and **MongoDB**. Authentication done using **JSON Web Tokens** and texting to student users done using **Twilio API**.

PhotoShare (https://vyas.app/projects/photoshare)

- A full-stack photo-sharing web app where users can create albums, upload photos, add tags, likes, and comments
- Frontend designed using **Figma** and built with **React.js**, **React Router**, vanilla **CSS**. REST backend was built with **Flask (Python)** and **PostgreSQL**, with authentication done using **JSON Web Tokens**. User photos are stored on **AWS S3**.

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, Jest, Cypress, Git, GitHub, BitBucket, Jira, Azure DevOps, Microsoft Office, MongoDB, PostgreSQL, Unix/Linux, Docker, Kubernetes