

Likhit Vyas Yarramsetti

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EDUCATION

Arizona State University

M.S., Robotics & Autonomous Systems (Artificial Intelligence)
B.S., Computer Science (GPA 3.76)

Tempe, AZ

Aug 2023 - May 2025

Aug 2020 - May 2024

EXPERIENCE

Software Engineer Intern @ Quantiperm

Chandler, AZ | Jun 2025 - Present

- Developing C++ embedded systems software for real-time metabolic monitoring systems and using React.js for the GUI and web-based interface
- Interfacing with sensors using the I2C protocol, developing a Modbus interface for the systems over TCP

Software Engineer Intern @ Edwards Lifesciences

Irvine, CA | May 2024 - Aug 2024

- Utilized the C# .NET ecosystem and Azure DevOps to develop the software inside HemoSphere: a hemodynamic patient monitoring system used in more than 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
- Was the sole developer of MSAS (mock sAS server): a test tool developed with gRPC and Python used by the QA teams for the testing of the Aortic Stenosis 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 coding fundamentals with block-based languages such as 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>)

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.

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

- Full stack web app that students at Arizona State University can use to track the number of seats available for any course at ASU. Server built with MVC approach using Node.js, Express.js, and MongoDB. Authentication done using JSON Web Tokens and text messages to student users is done using the 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. Backend API was built with Flask and PostgreSQL, with authentication done using JSON Web Tokens. User photos are stored on AWS S3.

A Comprehensive Introduction to Reinforcement Learning (https://vyas.app/reinforcement_learning.pdf)

- Reinforcement learning is an absolutely fascinating subfield of machine learning. So I wrote an article in the style of a research paper providing a comprehensive introduction to its fundamentals.

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