Likhit Vyas Yarramsetti

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EDUCATION

Arizona State University   Tempe, AZ
M.S., Artificial Intelligence   Aug 2023 - May 2025
B.S., Computer Science   Aug 2020 - May 2024
GPA: 3.76

EXPERIENCE

Software Engineer Intern, R&D @ 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 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). This project saved 70+ hours of manual labor.

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)

Playing Bowling with RL (https://vyas.app/projects/bowling-with-rl)
- Trained a 7DOF robotic arm to play bowling in **Mujoco** using the **Stable-Baselines3** implementation of Proximal Policy Optimization (PPO), a reinforcement learning algorithm.

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
- The **JavaScript** client sends the chat stream to the **Python** (**Flask**) backend in real time using **Socket.io**
- The backend analyzes the stream and performs natural language processing using **NLTK**
- The computed percent positivity of the chat is reported back to the client, displayed by the Chrome extension

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
- As team lead, I managed the project's development with **Jira**, **Git**, and **GitHub** ensuring all four team members learned and followed the best practices of how to collaborate using these tools
- Frontend designed using **Figma** and built with **React.js**, **React Router**, and custom **CSS**. Backend API was built with **Flask** and **PostgreSQL**, with authentication done using **JSON Web Tokens**. User photos are stored using **AWS S3**.

A Comprehensive Introduction to Reinforcement Learning (https://vyas.app/reinforcement_learning.pdf) Dec. 2024
- 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