Jay Jatinkumar Patel

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SUMMARY

Experienced software engineer with expertise in front-end development, and strong proficiency in ReactJS. Skilled in multiple programming languages, including C++, Python, and JavaScript, with experience in REST APIs, Redux, and Saga. Familiarity with various tools and technologies, such as Git, AWS, Docker, and Linux.

EXPERIENCE

San Jose State University, San Jose, CA, USA **August 2023 - Present**

Research Assistant

- Leading development of a Cyber Physical platform with AI functionality to test simulation policies in a Real-world setting.
- Developed a custom Python library for Sphero BOLT robot that allows better concurrent performance and operation of multiple robots.
- Demonstrated practical application of robotics-as-a-service through successful deployment of ReactJS-based web interface.

Miracle Cloud Technology, Ahmedabad, India **August, 2020 - July, 2021**

Software Engineer

- Focus: **Front-end development, CRM customization**
- Created Dashboard on front-end for the counties, municipalities, and hospitals.
- Developed and deployed reusable ReactJS components using TypeScript and Storybook React for the front-end.
- Optimized components to achieve 15% reduction in load time resulting in a substantial increase in customer satisfaction.
- Fetched data using REST APIs and implemented a user interface using ReactJS, Redux, and Saga for each operation workflow.

Miracle Cloud Technology, Ahmedabad, India **May, 2019 -July, 2020**

Software Engineer Intern

- Focus: **Front-end development**
- Developed and deployed reusable ReactJS components using TypeScript and Storybook React for the front-end.
- Added user facing registration wizard for the counties/Municipalities using Agile SCRUM methods.
- Implemented Jest testing framework to create unit tests elevating overall test coverage to 80%.

Technologies used: ReactJS, SQL, HTML, CSS, JavaScript, TypeScript, C#, Dynamic CRM 365

EDUCATION

M.S., Computer Engineering **May, 2023**

San Jose State University, San Jose, CA, **GPA: 3.5/4**

B.E., Electronics and Communication **May, 2020**

Vishwakarma Government Engineering College (VGEC), Ahmedabad, Gujarat, **GPA: 8.3/10**

Relevant Coursework: OOP in C++, Data Structures and Algorithm, OS, Computer Architecture, Advance Computer Design, Machine Learning, Artificial Intelligence and Data Engineering, Intelligent Autonomous Systems, System Software, Web UI Design, IoT, Digital Electronics, Fundamental of Computer and Programming

SKILLS

Programming Languages: C, C++, Python, C#, Java, JavaScript, TypeScript, Bash, and SQL

Tools & Technologies: ReactJS, node.js, Next.js, express.js, Redux, Saga, Git, HTML, CSS, AWS, Docker, Kubernetes, Jest, Linux, JIRA PostgreSQL, Jenkins, MongoDB, MySQL, Spring boot, Php, Angular, VueJS, Redis.

Libraries: NumPy, OpenCV, Matplotlib, TensorFlow, torch, OpenGL, Selenium, xtensor, Matplot++, boost

PROJECTS

LLM-Powered Legal Document Analysis and Summarization Tool, SJSU (ReactJS, NodeJS, GPT-3*)*

- Developed a professional-grade Legal Document Analysis Tool with a custom-trained GPT-3-based Large Language Model.
- Achieved an 85% document summarization accuracy during testing, enhancing understanding of complex legal documents.
- Projected a 30% reduction in legal document analysis time compared to manual review, streamlining comprehension of trade agreements and business contracts.

Citizen Engagement Digital Platform, SJSU (*ReactJS, Redux, MongoDB, HTML, CSS, .NET, AWS, Docker, Kubernetes*)

- Built a centralized full-stack web application to allow city residents to report civic issues and track their resolution status.
- Employed AWS services, such as EC2 and S3, for scalable deployment and storage of the application.

Video Chat Application, SJSU (MongoDB, Express, ReactJS, Node.js, webRTC, Socket.IO*)*

- Developed a MERN stack video chat application with WebRTC and Socket.IO integration.
- Enhanced user engagement by integrating OpenAI GPT3.5 APIs into the chat section for natural and interactive conversations.