

# Jay Jatinkumar Patel

San Jose, CA | [jay.j.patel@sjsu.edu](mailto:jay.j.patel@sjsu.edu) | (669) 588-7172 | [LinkedIn](#) | [Github](#)

## 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.

## 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

**Libraries:** NumPy, OpenCV, Matplotlib, TensorFlow, torch, OpenGL

## EXPERIENCE

### 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.
- Introduced image upload and location features into the portal for the civilians to report the issues with proof and location.
- Optimized components to achieve 15% reduction in load time resulting in a substantial increase in customer satisfaction.
- Fetches data using REST APIs and implemented a user interface using ReactJS, Redux, and Saga for each operation workflow.
- Developed complex application in Microsoft Dynamic CRM platform with customization of entities, sitemap writing client-side JavaScript.

### 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.
- Resolved UI & functional bugs in .NET to make the portal cross browser compatible.
- 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

## PROJECTS

### Robotics-as-a-service, SJSU (python, Sphero BOLT, Nvidia jetson Xavier, BLE, Flask, Mongo DB, OpenCV, ReactJS)

- Led development of a robotics-as-a-service platform using Sphero BOLT, Nvidia Jetson Xavier, BLE, Flask, Mongo DB, and ReactJS.
- Developed a custom Python library for Sphero BOLT, utilized computer vision for location tracking and auto charging algorithm.
- Demonstrated practical application of robotics-as-a-service through successful deployment of ReactJS-based web interface.

### 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.

### 2D & 3D Graphics Engine, SJSU (Arm-Cortex-M3, LPC1769, NXP mcuXpresso, Embedded C, SPI, TFT-LCD)

- Developed and implemented a real-time 2D and 3D graphics engine on the LPCXpresso 1769.
- Optimized the system by fine-tuning the use of the available resources, including DMA channels and interrupts, to ensure thorough and efficient operation.