

Jay Roy

Software Engineer | Mobile : +1 817-936-0554 | Email : jayroy0554@gmail.com | IN: [jay-roy](#)

PROGRAMMING SKILLS

Languages: Python, Java, PHP, C++, JavaScript

Technologies: SQL, Git, Docker, Kubernetes, CI/CD, Jupyter, NumPy

Frameworks: FastAPI, Flask, Django, Android SDK

API Development: RESTful API, JWT, SOAP API

Databases: MySQL, MongoDB, CloudSQL

Cloud Computing: GCP, AWS

Agile Developments Tools: Jira, Jenkins, Slack

WORK EXPERIENCE

MELZO PVT. LTD

Software Engineer

India

Jan 2021 – Aug 2022

- Initiated and directed extensive R&D in web technologies, resulting in a **12% increase** in user engagement through innovative cross-platform adaptation of 3D models in augmented reality, utilizing **Three.js** and **A-Frame**.
- Led the development and launch of an innovative jewelry try-on web application, integrating **Python** and **Node.js** with cutting-edge computer vision and AR technologies.
- Showcased the application at Sparkle-21, highlighting strengths in UI/UX and front-end development. Leveraging **React** for interactive interfaces, and employed **Webpack/Babel** for efficient bundling and code optimization.
- Coordinated the 'Noor' launch, highlighting backend development expertise with **Express.js**. Integrating **WebRTC** communication and implementing **MongoDB** for efficient data management, benefiting **5** major jewelry brand clients.
- Ensured project success by overseeing the full lifecycle, using **npm** for efficient build and deployment on **Amazon S3**. Implemented robust source control and issue tracking through **Git** and **Jira**.

LEXICON SOLUTION PVT. LTD

Software Engineer

India

Jun 2020 – Jan 2021

- Developed responsive web pages using **HTML5**, **jQuery**, and **AngularJS**, enhancing user interface and interactivity.
- Implemented lightweight business components using **SPRING/STRUTS2** framework combined with **AngularJS**, **jQuery**, and **HTML5**.
- Utilized Java **RESTful Web Services** and **AJAX** for efficient data access and interactive front-end development.
- Streamlined web page responsiveness and performance using **Bootstrap3** and **jQuerylibrary**.
- Managed project lifecycle with **Maven** for build and launch on **Jboss server**, and maintained code versioning and bug tracking using **Subversion** and **Mantis**.

PROJECTS

GAS STATION MANAGEMENT SYSTEM (SaaS APPLICATION)

Sep 2023 - Dec 2023

- Created a SaaS-based Gas Station Management System using **ReactJS**, **Flask**, and **Google Cloud technologies** (Cloud SQL, Cloud Storage, Compute Engine), ensuring scalability and remote accessibility.
- Designed a daily report upload feature for inventory and sales data, leading to a **15% improvement** in data accuracy and a **10% reduction** in administrative workload.
- Conducted over 200+ hours of **REST** and **SOAP API** development and testing with **Postman**, ensuring a **99.9% uptime** and reliable, user-friendly application performance.

SCHOOL SECURITY SYSTEM USING RFID

Feb 2021 - May 2021

- Innovated web-based RFID system for tracking student arrival and departure at school, enhancing security and parental communication, with over **2,000 active users**.
- Crafted an intuitive interface using **JavaScript**, **HTML**, and **CSS** for seamless monitoring of student movements by parents and administrators.
- Integrated **Plivo** for automated SMS notifications, enhancing communication between the school, parents, and administrators and fortifying engagement and security measures.
- Collaborated with stakeholders to enhance data retrieval, optimizing **MySQL** queries by **30%**, reducing access time from **5 to 3.5 seconds**. This improvement significantly bolstered decision-making and school safety.

EDUCATION

UNIVERSITY OF TEXAS AT ARLINGTON

Master degree in Computer Science

Arlington, TX

Jan 2022 – Dec 2023

- Web Data Management, Cloud Computing And Big Data, Software Engineering, Database Systems, Multithreading.

P P SAVANI UNIVERSITY

Bachelor of Engineering in Computer Engineering

India

Aug 2017 – May 2021

- C/C++, Database Management Systems, Data mining and Algorithm, Computer Networks.