

SAJAL SHRESTHA, MS

Full Stack Software Engineer

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Summary

Seasoned Full-Stack Software Engineer with over 5 years of experience and a strong foundation in Computer Science. Proficient in front-end and back-end development, database management, DevOps practices, and cloud technologies. Successfully contributed to multiple projects throughout the software development lifecycle, including the development, configuration, modification, and testing of integrated business and enterprise application solutions.

Skills

- JavaScript | TypeScript | Python | C# | C | C++ | Java | SQL | Solidity
- HTML | CSS | jQuery | React | Redux | NextJS | Node.js | Express.js | Ether.js | React Native | GraphQL | RESTful APIs | Unit Testing
- MongoDB | PostgreSQL | MySQL | Redis | DynamoDB
- Docker | CI/CD | AWS | Git | GitHub | GitLab | CircleCI | GitHub Actions | Jira | JUnit | Postman
- Microservices | Frontend | Backend | WebSocket | Full-Stack | Database | DevOps | OOP | Blockchain | Web3 | Machine Learning

Experience

Software Engineer, Researcher

University of Nevada, Reno

Reno, NV, USA 08/2022 - 05/2024

- Spearheaded the development of a **C#** and Unity Game Engine-based **software simulation**, engaging 300+ students and achieving a 20% increase in data accuracy compared to previous methods.
- Created a **full-stack, containerized web application** with an admin dashboard using **React** and **Node.js**, hosted on **AWS**.
- Designed and organized a **non-relational document database** to store 5 GB of research data for behavioral analysis.
- Developed a program for computing **descriptive statistics** on collected research data to successfully conclude the research.
- Collaborated in weekly meetings with professors to update and maintain the software system, adhering to a **test-driven** and **agile development approach**.

Full-Stack Software Engineer

Dzango Technologies

Hong Kong 03/2021 - 04/2022

- Engineered and maintained a **full-stack** software system and **mobile app**; [Embleem](#) by utilizing modern **JavaScript/TypeScript** libraries **React**, **React Native**, **Node.js**, and **Express.js**.
- Implemented **algorithms** and **caching** to improve the performance **optimization** of existing functionalities by 40%, enhancing overall functionality, and effectively manage the data flow of different features.
- Collaborated closely with senior team members to implement **microservices**, **database schemas**, and **DevOps** practices with **AWS** Technologies. Likewise, engaged in weekly code reviews, client interactions, gathering requirements, and offering technical expertise.

Founder & Software Engineer

SquarePark

Kathmandu, Nepal 10/2020 - 02/2021

- Conceptualized and led the development of an innovative app for reviewing local products and places, showcasing visionary leadership and a hands-on approach.
- Directed a cross-functional team of 5 members, providing motivation, strategic guidance, and serving as the technical lead in planning the software architecture and system design, emphasizing both leadership and technical proficiency.

Software Developer

Okhati Solutions

Kathmandu, Nepal 01/2020 - 01/2021

- Developed major features of [Okhati](#) using **JavaScript**, **React**, **Redux**, and **Node.js**. As well as, managed and maintained very **large-scale** health data in an **SQL database**.
- Solely responsible for **designing and developing an inventory system** from scratch for health supplies.
- Developed Okhati's customer-facing web application's various features including **health report generation**, **billing**, and **integration of the BS (Nepali) Calendars**.

Software Developer & Data Engineer

HamroKhelkud.com

Kathmandu, Nepal 05/2016 - 7/2018

- Developed an admin dashboard for visualizing and performing **statistical analysis of athletics data** using **React.js** and **C#**.
- Built a website using **HTML**, **CSS**, and **Vanilla JavaScript** and maintained and administered an **SQL database**.

Education

Master of Science

University of Nevada, Reno

Reno, NV, USA 08/2022 - 05/2024

- Major in Computer Science and Engineering (GPA: 3.25)

Bachelor of Engineering

Dr. Ambedkar Institute of Technology

Bangalore, India 08/2014 - 07/2019

- Major in Computer Science and Engineering (GPA: 3.25)