

Shriraj Yogendra Jahagirdar

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Education and Certifications

- **M.S. Computer Science**, San Diego State University, USA, **GPA: 3.88** **Aug 2021 – May 2023**
- **B.E Computer Engineering**, University of Pune, Pune, India **Aug 2014 – June 2018**
- **AWS Certified Solutions Architect Associate(SAA-C02)** **2021**

Technologies and Languages

- **Languages:** Javascript, TypeScript, Java, Python, PL/SQL
- **Technologies:** React, Redux, Node.js, GraphQL, Express.JS, Next.js, Tailwind CSS, Spring Boot, Hibernate, MongoDB, PostgreSQL, Redis, AWS, Docker, Kafka, Spark, Mocha, Chai, Machine Learning, Git, Postman, Jira

Work Experience

Software Developer Intern SkillNet May 2022 - May 2023

- Designed and developed an internal asset tracking and management tool(MERN stack) for the entire company, eliminating the manual effort required to track assets through CSV files by 20 hours per week.
- Introduced Amazon's CloudFront CDN to serve all the static files which reduced the Time To First Byte from 1000 ms to 600 ms.
- Identified common usage patterns across the codebase and solved them by building a lightweight React component library that observed an adoption rate of more than 30% across projects.
- Improved the FID metric of the React application by more than 30% using optimization techniques like code bundling, debounce, throttle, and dependency optimization.
- Incorporated GraphQL on the Node.JS server to act as a Facade which reduced several round trips from client to server reducing the response time by 80%.

Software Engineer (Associate) Accenture Oct 2018 - May 2020

- Led the website migration from a legacy single-page jQuery application to a modern React application, which lowered page load time by more than 30%.
- Wrote an automated script in Python that checks and adds some filler code in 200+ PL/SQL files required for compilation during the CI/CD Jenkins pipeline saving 50% of manual labor.
- Created indexes on tables in Oracle that eliminated full table scans that reduced query response time by 20%.
- Handled application downtime and controlled traffic spikes by implementing target scaling on Amazon CloudWatch.
- Organized a workshop on AWS and trained 10 developers across different projects which motivated them to use their services and complete certification.

Projects

Project Management Tool (React, Redux, Next.JS, Chakra UI, Node.JS, Express, Firebase, Socket.IO) Jan 2023

- Developed a robust project management tool akin to Jira, facilitating the creation of projects and seamless assignment of tasks to users. Furthermore, the system incorporates the ability to attach comments to tasks, promoting effective collaboration.
- Wrote APIs in Node.JS, utilizing Firebase's Realtime Database and Storage to store data and media, such as images and documents. De-bouncing was enabled to facilitate the search of users and projects across the system.
- Enabled full-duplex, real-time communication between members of the project through Sockets.

In-Memory Database (Java, Design Patterns) Dec 2022

- Built an in-memory database in Java that stores values of several data types, such as Strings, Arrays, Objects, and Primitives.
- Conserved the current state of the database to a text file by employing the Memento design pattern which allowed quick recovery in case of application failure.
- Logged database transactions to a command text file using a Command design pattern that reduced the cost of expensive snapshot operations.