

# SAURABH FODEKAR

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## Summary

Software Developer with **5 years of experience** in designing and developing scalable applications using **Node.js, JavaScript, TypeScript, Express.js and PostgreSQL**. Proven expertise in delivering high-performance solutions focusing on innovation, collaboration and continuous learning. Passionate about creating reliable and efficient software that meets modern industry standards.

## Education

Marathwada Mitra-Mandal College of Engineering Pune | Bachelor's Degree in Mechanical Engineering

Aug 2015 - May 2019

## Technology Stack

**Programming Languages** : Node.js, JavaScript, TypeScript, C++, C, Java  
**Databases** : PostgreSQL, MySQL, Redis Cache, MongoDB  
**Cloud & DevOps** : Azure functions, Queue, Blob, Key Vault  
AWS Lambda functions

**Web Technologies** : Express.js, RESTful APIs, GraphQL  
**Unit Testing** : Mocha, Chai  
**Tools** : WebStorm, Visual Studio, Postman, Git, Docker, JIRA

## Experience

### Frontol Software System Pune | Software Developer

Oct 2023 – Present

- **Developed a scalable project management tool** using Agile methodologies with Node.js, Express, PostgreSQL, Docker, and serverless functions, ensuring optimize performance, reliability, and resource efficiency
- **Designed and implemented a multi-tenant architecture** with a dynamic database/schema switching Engine, providing isolated client data environments and supporting seamless customization.
- **Built an Auto Jira Error Log Engine** integrating Azure Queue, Blob Storage, Serverless Functions, and Jira APIs to automatically capture and track unhandled errors, improving debugging and issue resolution.
- **Developed a Database Extension Engine** allowing users to create and manage custom database tables directly from the UI, enabling enhanced flexibility for project management.
- **Integrated Azure Key Vault for secure secret management**, eliminating .env file dependencies and enforcing strict role-based access control to safeguard sensitive credentials.
- **Implemented cron-triggered serverless functions** to automate background tasks, optimize asynchronous workflows, and reduce processing latency.

### Rainclouds Global Solutions Pune | Software Developer

Jun 2022 – Sept 2023

- **Developed and maintained high-performance web applications** in the compliance and cybersecurity domain using Node.js, Express.js, and PostgreSQL, ensuring scalability and seamless user experiences.
- **Enhanced authentication and security protocols** by implementing SAML, OAuth, and Passport.js, securing user access while maintaining regulatory compliance.
- **Generated comprehensive Swagger documentation** to facilitate clear API communication, reducing integration time and improving team collaboration.
- **Developed a Virtual Cloud Desktop (VCD) plug-in** to integrate web applications with virtualized cloud platforms, enhancing accessibility and productivity in remote work environments.
- **Strengthened data security by implementing MFA and public-private key encryption**, preventing unauthorized access and ensuring data confidentiality.

### Capgemini India Pune | Software Developer

May 2021 – May 2022

- Engineered high-performance C++ and MFC desktop applications for Canon's X-ray image processing, optimizing image handling workflows. Simultaneously, developed scalable **web applications using Node.js and Express.js**, leveraging their efficiency for robust backend solutions. Effectively collaborated with cross-functional teams to integrate desktop and webApp.

### Prime Marketing Pune | Welding Automation Engineer

Aug 2019 – Apr 2021

- Specialized in welding automation as a welding automation engineer, providing tailored solutions to optimize manufacturing efficiency. Analyzed customer requirements, recommended automated welding systems, and collaborated with cross-functional teams to develop customized solutions, driving customer satisfaction and business growth.

## Open-Source Projects

- **Redirect to Local Server (Chrome Extension)** – A development tool that seamlessly connects a local server with a live frontend by redirecting APIs. Eliminates the need for external tools like Postman, enabling in-browser API testing, debugging.
- **Git-Postman-Sync Engine (Desktop application)** – An open-source tool that syncs Postman collections with GitHub, enhancing team collaboration and version control for API collections, simplifying sharing and access.
- **Excel-as-Database (NPM Package)** – A Node.js package that transforms Excel into a SQL-supported lightweight database.
- **Expense split Backend** – Scalable backend with expense distribution algorithm, MFA, JWT authentication, third-party logins, email notifications, and payment integration (in progress).