

Raj Rabari

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Full-Stack Software Engineer with 3 years of experience delivering production-grade web, desktop, and cloud-native applications. Deep expertise in the JavaScript/Node.js runtime — event loop internals, async mechanisms, and native C++ addon development. Built and shipped a production Electron desktop sync client comparable to OneDrive, an AI-powered cloud application on AWS with full CI/CD, and a Salesforce-grade formula engine with AST-based validation. Comfortable owning the complete stack: Angular frontend → Node.js backend → Docker containers → AWS EC2 infrastructure. Strong CS fundamentals: OOP, multithreading, memory management, mutex/atomic operations, and OS-level file APIs.

TECHNICAL SKILLS

- Languages : JavaScript, TypeScript, Java (core), C++, HTML, CSS
- Frontend Frameworks & Libraries : Angular, React, RxJS, NgRx, Tailwind CSS
- Backend Frameworks & Databases : Node.JS, Express.JS, JWT, SQLite, MongoDB
- Desktop Apps : Electron.JS, C++ addons
- Cloud & Devops: AWS EC2, AWS ECR, Route 53, Elastic IP, Docker, Docker Compose, GitHub Actions CI/CD, Nginx

PROFESSIONAL EXPERIENCE

VALORX INDIA PVT LTD

08/2025 - Present

Software Engineer

Ahmedabad, India

- Working on **Valorx Wave**, a productivity platform enabling powerful spreadsheet-style interaction with **Salesforce data** for high-volume updates and automation.
- **Owned and delivered multiple product features end-to-end**, including development and ongoing maintenance to enhance the feature and ensure seamless functionality.
- **Single-handedly implemented a full “Formula Field-like” capability**, empowering users to define dynamic computed fields similar to Salesforce formulas.
- Building reactive and scalable modules using **Angular 19+**, **NgRx**, **TypeScript**, and **RxJS**, collaborating closely with cross-functional teams to drive product excellence.

ASITE SOLUTIONS PVT LTD

06/2023 - 07/2025

Associate Software Engineer

Ahmedabad, India

- Engineered aDrive — a production desktop file sync client (comparable to OneDrive/Google Drive) built on Angular 13+ and Electron.js, integrated with Asite's cloud CDE platform.
- Implemented on-demand file access using NTFS sparse files: users see the full file tree locally without disk usage; files download only when opened — identical to how OneDrive Files On-Demand works at the OS level.
- Authored a C++ native addon for Node.js using multithreading to create thousands of sparse files in parallel — significantly outperforming a pure JavaScript implementation for filesystem-intensive operations.
- Built Windows Shell Extensions in C# (DLLs) — custom context menu entries in Windows Explorer and overlay icons showing real-time sync status; sync state stored in and read from NTFS Alternate Data Streams.
- Implemented two-way cloud sync: remote events (file moves, revision deactivation, deletions) reflected in the local filesystem in real-time using Node.js event-driven architecture and SQLite for local state.
- Modernized the monolithic Adoddle CDE platform by extracting Angular micro-frontends integrated with legacy JSP systems, improving maintainability and cross-product compatibility.
- Wrote high-coverage Jest unit tests; packaged desktop installer using NSH scripts.

PROJECTS

ScriptWeaver — AI-Powered Full-Stack Web Application

[Angular 19+, Node.JS, Express.JS, Docker, AWS EC2]

- Designed and deployed a complete AI content generation platform end-to-end, hosted at rrabari.in.
- Nginx reverse proxy serves both frontend and API under the same domain, eliminating CORS entirely; Certbot automates SSL/TLS certificate renewal with forced HTTP→HTTPS redirect.

- AWS infrastructure: EC2 (Ubuntu 24.04) + Elastic IP + Route 53 DNS; Security Groups restrict public access to ports 80/443 only; SSH locked to a single whitelisted IP.
- CI/CD pipeline: GitHub Actions builds Docker images on every push to main, authenticates to private AWS ECR, pushes images — server pulls and restarts containers in seconds.

Ecommerce Backend Application

[Node.JS, Express.JS, MongoDB]

- Designed and developed the backend for an e-commerce application with secure JWT-based authentication.
- Built REST APIs for product management, user profiles, cart operations, and order processing.
- Implemented robust error handling, query optimization, and ensured scalable architecture.
- Focused on clean code practices and backend performance to support smooth user interactions.

Real Time Chat Application

[HTML, CSS, JavaScript,Socket.IO]

- Developed a real-time chat app using Socket.io with bidirectional messaging and presence updates.
- Ensured smooth UX with efficient message handling, responsive UI, and event-driven architecture.

EDUCATION

VISHWAKARMA GOVERNMENT ENGINEERING COLLEGE

Ahmedabad, India

Bachelor of Engineering - Information Technology - 7.94

06/2019 - 06/2023