SHADMAN AFZAL

Fullstack JavaScript Developer

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EXPERIENCE

Squareboat   **Aug 2025 – Present**
Senior Software Engineer   *Gurugram, India*

- Engineered and deployed backend APIs for a job portal using **Nest.js**, ensuring robust and maintainable architecture. Integrated **Sentry** for real-time error monitoring, **PM2** for process orchestration, and **Redis queues** for scalable, asynchronous email notification workflows.
- Revamped and optimized an internal service-desk platform by implementing push notifications using **Firebase Admin SDK** and WhatsApp notifications via **Twilio SDK** with background job processing on **Redis queues**, integrating secure OTP verification, migrating the codebase, and resolving critical issues to improve system reliability and user experience.
- Built **MJML**-responsive email templates with scalable background delivery powered by Redis queues.
- Architected and built an online test-taking platform (Anchor) from scratch, developed a scalable and high-performance server using **Nest.js** monorepo architecture. Integrated **LLM**-based solutions for automated test evaluation and AI-powered proctoring.

Tata Consultancy Services   **Jul 2022 – Jul 2025**
Systems Engineer   *New Delhi, India*

- Worked on multiple fullstack projects using **Node.js**, **React.js**, and **AWS**, with experience in both SQL and NoSQL databases.
- Utilized industry-standard tools including **Jira**, **Contentful**, **ServiceNow**, **Docker**, and more.
- Improved REST API performance by 99.5%, reducing response time from 4s to 20ms using asynchronous Node.js and optimized database queries, enhancing UX and conversions.
- Architected and deployed a serverless job execution platform on **AWS** (**ECS**, **Lambda**, **Athena**), reducing manual intervention by 80%. Automated **CI/CD** workflows via **GitHub Actions**, cutting deployment time from 25 minutes to 12.
- Migrated a legacy Windows network folder to **AWS S3**, significantly improving file upload speed and reducing processing time by automating workflows with **ECS** tasks.

Appyhigh   **Sep 2021 – Jun 2022**
Software Engineer Intern   *Bangalore, Remote*

- Built an email client application with 100K+ users, developing both frontend and backend. Incorporated multiple email clients such as Gmail, Outlook, and Yandex.
- Built a train ticket booking app with Razorpay payments, real-time train updates, PNR tracking, seat availability, search, and IRCTC authentication.
- Engineered cross-platform mobile apps using Flutter with **RxDart**, **GetX**, **Bloc**, **Firebase**, and **Node.js** for APIs, ensuring optimal performance for 100K+ users on iOS and Android.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, HTML, CSS

Frameworks/Libraries: Node.js, Express, Nest.js, React.js, Next.js, Redux

DevOps/Cloud: AWS (Lambda, ECS, S3, CloudFormation), GCP, Docker, GitHub Actions, CI/CD

Databases: MongoDB, PostgreSQL, MySQL

Tools: Jira, ServiceNow, Webpack, Tailwind CSS, Material UI, Kubernetes

PROJECTS

Velocity Email Client | *Node.js, React.js, Webpack, Tailwindcss, React Redux, Passport.js, Google OAuth2.0*

- Developed the Velocity Email Client, a minimalist and user-friendly application enabling seamless email management.
- Implemented features such as inbox organization, dark mode support, and user authentication using **Google OAuth2.0**.
- Utilized **Redux Toolkit** for state management, **Webpack** for module bundling, and **Tailwind CSS** for UI design.
- Source code: **https://github.com/ShadmanAfzal/Velocity-Email-Client**

Tulip Digital | *Flutter, Node.js, MongoDB, Git*

- Developed and deployed a client-centric mobile app enabling streamlined inventory updates and e-invoice generation. Achieved a **75%** reduction in manual tasks, boosting productivity and accuracy.
- Created back-end APIs using **Node.js** and **MongoDB** as database. Added an Admin Panel to allow the Admin/Owner to inspect the inventory.

EDUCATION

Guru Gobind Singh Indraprastha University, New Delhi   **Aug 2018 – Jun 2022**
Bachelor of Technology in Information Technology   **9.4 CGPA**

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate (Oct 2024 – Oct 2027)
- AWS Certified Cloud Practitioner (Nov 2023 – Oct 2027)

ACHIEVEMENTS

- Received **Rockstar Rookie** award at Squareboat.
- Received **Technical Excellence** award at TCS.
- Received the **Star of the Month** award five times and the **Star of the Quarter** award at TCS.