

# SHADMAN AFZAL

Senior Fullstack Engineer

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## EXPERIENCE

### Squareboat

Software Engineer - Level 2

Aug 2025 – Present

Gurugram, India

- Architected and deployed scalable backend APIs for a job portal using **Nest.js**, implementing **Sentry** for real-time monitoring, **PM2** for process management, and **Redis queues** for asynchronous email notifications, ensuring high availability and performance.
- Transformed internal service-desk platform by implementing multi-channel notifications (**Firebase**, **Twilio** **WhatsApp**), secure OTP verification, and background job processing with **Redis queues**, significantly improving system reliability and response times.
- Developed **MJML**-based responsive email templates with scalable delivery infrastructure powered by Redis queues, enabling efficient bulk communications.
- Led end-to-end development of Anchor, an online test-taking platform, utilizing **Nest.js** monorepo architecture. Integrated **LLM**-powered automated evaluation and AI-driven proctoring, reducing manual grading effort by 90%.

### Tata Consultancy Services

Jul 2022 – Jul 2025

Systems Engineer

New Delhi, India

- Optimized REST API performance by **99.5%**, reducing response time from 4s to 20ms through asynchronous Node.js implementation and database query optimization, directly improving user conversion rates.
- Designed and deployed serverless job execution platform on **AWS** using **ECS**, **Lambda**, and **Athena**, reducing manual intervention by **80%** and cutting deployment time by 52% (25 min to 12 min) via **GitHub Actions** CI/CD automation.
- Migrated legacy Windows network storage to **AWS S3** with automated **ECS** workflows, achieving 3x faster file uploads and streamlined processing pipelines for enterprise-scale operations.
- Delivered multiple fullstack applications using **Node.js**, **React.js**, **AWS**, with both SQL and NoSQL databases, leveraging **Jira**, **Contentful**, **ServiceNow**, and **Docker** in production environments.

### Appyhigh

Sep 2021 – Jun 2022

Software Engineer Intern

Bangalore, Remote

- Built email client application serving **100K+ users** with multi-provider integration (Gmail, Outlook, Yandex), developing complete fullstack solution with Node.js backend and responsive frontend.
- Developed train ticket booking application featuring Razorpay payment integration, real-time train updates, PNR tracking, seat availability search, and IRCTC authentication system.
- Engineered cross-platform mobile applications using **Flutter** with **RxDart**, **GetX**, **Bloc**, and **Firebase**, optimized for 100K+ concurrent users across iOS and Android platforms.

## TECHNICAL SKILLS

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

**Backend:** Node.js, Express.js, Nest.js, Django REST Framework, REST APIs, Microservices

**Frontend:** React.js, Next.js, Redux, Tailwind CSS, Material UI

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

**Databases:** MongoDB, PostgreSQL, MySQL, Redis

**Tools:** Jira, ServiceNow, Sentry, Firebase, Git, Webpack, PM2

## EDUCATION

### Guru Gobind Singh Indraprastha University

Aug 2018 – Jun 2022

Bachelor of Technology in Information Technology

9.4 CGPA

## PROJECTS

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### Velocity Email Client | *Node.js, React.js, Redux, OAuth 2.0, Webpack, Tailwind CSS*

- Developed minimalist email client with seamless inbox management, dark mode, and secure **Google OAuth 2.0** authentication.
- Implemented **Redux Toolkit** for state management, **Webpack** for optimized bundling, achieving fast load times and smooth UX.
- Repository: [github.com/ShadmanAfzal/Velocity-Email-Client](https://github.com/ShadmanAfzal/Velocity-Email-Client)

### Tulip Digital | *Flutter, Node.js, MongoDB, REST APIs*

- Built client-focused mobile app with real-time inventory management and automated e-invoice generation, reducing manual work by **75%**.
- Developed RESTful APIs with **Node.js** and **MongoDB**, including admin dashboard for comprehensive inventory oversight.

## CERTIFICATIONS

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

## ACHIEVEMENTS

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- Awarded **Rockstar Rookie** at Squareboat for exceptional early contributions.
- Recognized with **Technical Excellence** award at TCS for outstanding technical contributions.
- Received **Star of the Month** award five times and **Star of the Quarter** award at TCS.