

SHADMAN AFZAL

Fullstack Engineer

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EXPERIENCE

Squareboat

Software Engineer - Level 2

Aug 2025 – Present

Curugram, 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.
- Enhanced Service-desk platform with multi-channel notifications (**Firebase**, **Twilio WhatsApp**), secure OTP verification, and **Redis** based queue processing.
- Led full-stack development of Anchor testing platform using **Nest.js monorepo** architecture with **LLM** powered agentic evaluation and AI proctoring, reducing manual grading by **90%**.

Tata Consultancy Services

Systems Engineer

Jul 2022 – Jul 2025

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.

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, SQS, Athena, CloudFormation), Docker, GitHub Actions, CI/CD

Databases: MongoDB, PostgreSQL, MySQL, Redis

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

PROJECTS

AskMyPDF | Python, FastAPI, Ollama, ChromaDB, Vector Embeddings

- Local **RAG-based PDF system** enabling semantic search and context-aware responses using vector embeddings.
- Implemented incremental PDF indexing, text chunking, and persistent similarity search with **Ollama** and **ChromaDB**.
- Built **FastAPI streaming endpoint** to retrieve top-K relevant chunks and generate answers via LLM.
- Repository: github.com/ShadmanAfzal/AskMyPDF

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

- Mobile app for real-time inventory management with automated e-invoice generation, reducing manual work by **75%**.
- Developed RESTful APIs using **Node.js** and **MongoDB** with admin dashboard for inventory oversight.
- Integrated real-time data sync and PDF generation for seamless invoice automation.

EDUCATION

Guru Gobind Singh Indraprastha University

Bachelor of Technology in Information Technology

Aug 2018 – Jun 2022

9.4 CGPA

CERTIFICATIONS

- AWS Certified Solutions Architect - Associate
- AWS Certified Cloud Practitioner