Alan Joshy

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CAREER OVERVIEW

Results-driven Backend Developer with over 2+ years of experience building scalable, secure, and high-performance backend systems. Proficient in FastAPI, Django, PostgreSQL, Redis, AWS, RESTful APIs, GraphQL, and Microservices. Skilled in designing enterprise-grade distributed architectures with real-time communication, caching, CI/CD pipelines, and monitoring. Adept at transforming business requirements into fault-tolerant cloud-native applications.

TECHNICAL SKILLS

Languages: Python, JavaScript, Dart, Java, PHP, SQL, C, C++
Frameworks and Libraries: FastAPI, Django, Flask, Node.js, React, Flutter, Tailwind CSS, GraphQL, OpenCV
Databases: PostgreSQL, MySQL, MongoDB, SQLite
Cloud and DevOps: AWS (EC2, RDS, ElastiCache, S3, Secrets Manager, CloudFormation), Docker, Kubernetes, GitHub Actions, PM2, Nginx, Gunicorn
Backend Architecture: RESTful APIs, GraphQL APIs, Microservices, WebSockets, Socket.IO, Distributed Caching, Message Queues
Testing and Tools: PyTest, Jest, Supertest, Postman, CI/CD pipelines
Other Tools: Figma, Canva, Notion, Jira

WORK EXPERIENCE

Back End Developer / Team Lead, Codeteak | Bengaluru, Karnataka, India (Apr 2025 - present)

- Designed microservice-based backend architecture using FastAPI and PostgreSQL, supporting 100+ supermarkets.
- Developed RESTful and GraphQL APIs for scalable mobile and web applications, improving response times by 30
- Implemented real-time communication with WebSockets and Redis, achieving sub-second data updates.
- Built high-performance caching and distributed job scheduling with AWS ElastiCache, reducing latency by 25
- Led CI/CD automation with GitHub Actions, Docker, and AWS, enabling zero-downtime deployments.
- Managed a team of 5 developers, conducting sprint planning and delivering features on time.
- Collaborated with clients to translate requirements into technical tasks, ensuring 100

Full Stack Developer, Tharakans Group Pvt. Ltd. | Bengaluru, Karnataka, India (Sep 2023 - Mar 2025)

- Developed a school management system, streamlining administration .
- Facilitated cross-functional collaboration, improving platform adoption by 80
- Managed project lifecycle, aligning technical outcomes with business goals, reducing delivery time by 20
- Enhanced student data management and fee collection, cutting manual workload by 40
- Delivered real estate and farm management solutions, boosting operational efficiency by 15
- Supported marketing initiatives, increasing client engagement by 10

PROJECTS

Yadro Backend - Delivery Management Platform | FastAPI and AWS (Apr 2025 - present)

- Built FastAPI backend for supermarket delivery system, handling 100,000+ requests per minute.
- Implemented order lifecycle, delivery partner onboarding, and multi-role authentication.
- Enabled live GPS tracking with Socket.IO and Redis, achieving sub-second updates.

- Developed WebSocket-based real-time communication in the Yadro Admin web app using React.js, improving monitoring and control efficiency.
- Deployed on AWS (EC2, ALB, RDS PostgreSQL, ElastiCache Redis, S3, Secrets Manager) with Dockerized microservices.
- Achieved zero-downtime deployments and enterprise-grade security, integrating with Flutter app.

School Management System - Django and AWS (Internal Project for Tharakans Montessori)
- Developed school management system, streamlining operations for school authorities.
- Implemented role-based portals, enrollment, attendance, exam, and fee automation.
- Enabled real-time chat and notifications using Django Channels and WebSockets.
- Deployed on AWS (EC2, RDS PostgreSQL, S3) with secure authentication and audit trails.
- Reduced staff workload by 40

EDUCATION

Bachelor of Computer Applications (BCA), Mahatma Gandhi University, Kottayam (Jun 2018 - Mar 2021)
- Relevant coursework: Data Structures, Database Systems, Operating Systems, Web Development

CERTIFICATIONS

- Flutter Full Stack Development, Udemy, Sep 2022
- Python Django Development, Avodha EdTech, Aug 2023
- International English Test, British Council, Aug 2022