MANAVRAJ THAKOR

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SUMMARY

Software Developer with **1.5 years of experience** building **low-latency, event-driven systems** using **Python/Django REST**, **async workflows**, and **functional programming principles**. Delivered production solutions for clients like **Crompton, Unilever, and United Breweries**, handling **50k+ events per batch with sub-10ms latency**. Experienced in **Flutter mobile apps**, including **ShopAR** (e-commerce with AR and mini TV) and **Me-Chat** (real-time chat with OTP, voice, and status features). Focused on **reliable, scalable, and maintainable system design**.

EDUCATION

Charotar University of Science and Technology(CHARUSAT)
Bachelor in Computer Science   Oct 2020 - May 2024
- **Relevant coursework:** Engineering Mathematics, Object Oriented Programming Concepts, Data Structures & Algorithms, Database Management System, Design & Analysis of Algorithms, Operating System, Computer Networks, Software Engineering, Language Processors, Cloud Computing, Machine Learning, Artificial Intelligence

Gujarat Higher Secondary Education Board - 12th Science
Basil School Baroda   March 2020
Percentage: 68%

Gujarat Secondary Education Board - 12th Science
Basil School Baroda   March 2018
Percentage: 78%

EXPERIENCE

AudvikLabs Private Limited | Backend Developer (Remote)   *May 2024 – August 2024*

- Architected backend platforms with Django REST, PostgreSQL, Redis, Celery, powering large-scale enterprise apps.
- Designed functional-style pipelines for async data processing (Redis Streams + Celery), ensuring reliability & self-healing retries.
- Built secure APIs with idempotent transaction handling, JWT authentication, and RBAC for multi-client systems.
- Optimized forecasting workflows by reducing latency from 60s → 5s (92% improvement) through caching + declarative async tasks.
- Automated pipelines processing 50k+ records per upload with event-driven scheduling & retries.
- Contributed to event-driven workflows with Celery + Redis Streams, enabling async data processing.

Meditab Software (India) PVT. LTD. | Powerbuilder Trainee   **January** *2023 – May 2023*

- Trained in **PowerBuilder fundamentals**, including **PowerScripts** and **DataWindows**.
- Developed key modules such as **Patient Master**, **Insurance Master**, and **Authorization Master**.
- Gained hands-on experience in **debugging and resolving production issues**.
- Learned to work with **database-driven applications** and maintain **data integrity** in enterprise systems.

Webbrains Technologies Private Limited| Flutter Developer Intern   **May** *2022 – June 2022*

- Learned **API integrations** and **asynchronous programming** in Flutter.
- Developed **production features** including **WebSocket-based real-time communication**.
- **Resolved high-priority production bugs**, ensuring app stability and performance.
- Gained experience in **mobile app development best practices** and **scalable Flutter architectures**.

PROJECTS

Smart Inventory | Django REST, PostgreSQL, Redis, Celery, Docker
- Built an API-first inventory backend with real-time consistency guarantees for stock management.
- Implemented functional pipelines (Redis Streams → Celery workers → DB writes) ensuring atomic, reliable updates.
- Achieved 90%+ test coverage with Pytest; published Swagger/OpenAPI documentation for dev self-service.

Code-IT | Django REST, Celery, ReactJS, Docker
• Built a distributed coding judge platform where users submit code across multiple languages.
• Orchestrated execution using isolated Docker containers with async task dispatch.
• Designed idempotent execution + automatic retries to ensure correctness under heavy load.
• Modeled evaluation workflows as declarative pipelines, inspired by functional programming principles.

ShopAR- AR E-Commerce App | Flutter, Firebase, ARCore
• Developed AR-based shopping experience with 3D product visualization in user environments.
• Added Admin login for product management and Mini-TV for in-app engagement.
• Integrated Stripe payment gateway for smooth checkout and converted backend product data for AR visualization.

Me-Chat | Flutter, Bloc State Management, NodeJs, ExpressJs, MongoDB, Firebase
• Built real-time messaging app with WebSockets, supporting text, emojis, voice messages, and status updates.
• Implemented **Firebase Authentication** for secure login and user management.
• Developed backend using **Node.js** with RESTful APIs and real-time data handling for seamless communication.

SKILLS

Technical Skills:
• **Programming Languages:** Python, Java, SQL, C++, JavaScript, Dart
• **API & Testing**: REST, GraphQL (familiar), Postman, Swagger, API Documentation
• **Frameworks & Backend:** Django REST Framework, FastAPI, Flask, Spring Boot (familiar)
• **Tools & Process**: Jira, Agile, Technical Diagrams (Mermaid, UML)
• **Cloud & DevOps:** AWS, Docker, Kubernetes, Jenkins, Maven, CI/CD Pipelines, Helm (familiar)
• **Databases & Caching:** PostgreSQL, MySQL, MongoDB, Redis
• **Event-Driven & Async Systems:** Celery, Redis Streams, RabbitMQ (familiar), Kafka (familiar), Async/Await
• **Frontend Technologies:** React.js, Flutter
• **Development Tools:** Git, GitHub, IntelliJ IDEA, VS Code, Postman, Maven, Swagger, Docker Compose
• **Software Engineering:** Object-Oriented Programming (OOP), SOLID Principles, Design Patterns, Test-Driven Development (TDD), Agile Methodologies, Application Security Practices

Personal Skills:
• Problem-solving & analytical thinking
• Adaptability & quick learning
• Attention to detail
• Team collaboration & communication
• Time management & prioritization
• Critical thinking & decision-making

CO-CURRICULARS ACTIVITIES

•Participated in **hackathons and coding competitions**, solving real-world problems under time constraints.
•Served as **Captain of the University Department Cricket Team**, leading the team in tournaments and fostering teamwork.
•Attended workshops and seminars organized by **AWS Student Club** and **Google Developer Student Clubs** on cloud technologies, app development, and emerging tech trends.
•Engaged in **peer-led coding sessions and tech meetups**, enhancing practical skills and knowledge sharing.