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PROFESSIONAL EXPERIENCE

Software Engineer   January 2025 – Present
Axtria India Pvt. Ltd. ↗

- **Designed and implemented** an AI-driven query generation system in **Python (FastAPI), Knowledge Graphs, RAG, and vector databases**, cutting manual SQL query effort by **80%** and improving accuracy by **25%**.
- **Optimized** system performance with batch processing and parallel execution, reducing query generation time from **30 min to 3 min** and boosting throughput by **300%**.
- Architected concurrent, event-driven **distributed systems** in Go, processing 10M+ records 40% faster.
- Automated 5+ **data pipelines** using Go microservices, Kafka, and REST APIs, enabling real-time alerts in a **cloud-native** environment and reducing manual intervention by **60%**.
- **Collaborated** with DevOps, frontend, and data engineering teams to enhance **CI/CD pipelines using Docker and Kubernetes**, delivering reliable and scalable releases.

Junior Backend Engineer   October 2023 – December 2024
Archmed Biotech Pvt. Ltd.

- **Engineered** a scalable inventory management system with Python (FastAPI) & PostgreSQL, improving tracking accuracy to **99.5%** and reducing manual data entry by **40%**; containerized with Docker and deployed on AWS EC2.
- **Developed** a back-end for an internal reporting dashboard in Python, processing **1,000+ daily data points** to deliver real-time performance insights for stakeholders.
- **Built** a custom CRM system consolidating client data, boosting lead management efficiency by **20%** and increasing conversion rates by **15%** within three months.
- **Automated** batch-expiry notifications with a Python utility, ensuring timely alerts for sales teams and reducing missed sales opportunities.

EDUCATION

Bachelor of Engineering in Computer Science   2021 – 2025
Chandigarh University
CGPA - 8.2

PROJECTS

Secure Authentication System with OTP Verification and JWT-based Authorization (Go)
- Built a secure authentication system with JWT, OTP via Twilio, email, and OAuth integration, reducing unauthorized access.
- Implemented modular architecture with Redis, rate limiting, improving API response speed and blocking brute force attacks.
- Integrated PostgreSQL with SQLC for type safe database operations, reducing runtime errors by 70%.

Snapgram – A Full-Stack Social Media Web App
- Built a scalable social media app with React, TypeScript, and Appwrite, featuring secure authentication.
- Developed efficient CRUD operations, integrated real-time features, and increased user engagement 45%.
- Optimized frontend performance using React hooks, Context API, Tailwind CSS, reducing load times 40%.

Smart Traffic Vision System using YOLOv8
- Designed real-time vehicle and license plate detection system using YOLOv8, deployed with Flask for ANPR.
- Achieved 98% precision in license plate recognition, optimizing YOLOv8 model performance despite strict hardware limitations.
- Utilized Python for preprocessing, model training, and Flask deployment, enabling accurate, scalable, real-time computer vision.

SKILLS

Technical Skills
Python, Go, Flask, FastAPI, Gin, React (JavaScript/TypeScript), SQL, PostgreSQL, MySQL, Snowflake, Clickhouse, REST APIs, JWT-go, Docker, AWS, Git, GitHub Actions, Postman, ETL Automation, Agile, Jira, CI/CD, TensorFlow, Keras, PyTorch, Scikit-learn, OpenCV, Linux, Bash, gRPC, Azure, Grafana, Langchain, Langgraph

Other/Tools
MLOps, Data Pipelines, Distributed Systems, Cloud-native Architecture, GenAI, Prompt Engineering