Areeb Ahmed Shariff

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EDUCATION

Dayananda Sagar College of Engineering   Bengaluru, India
Bachelor of Engineering – Computer Science and Business Systems   2022 – 2026

TECHNICAL SKILLS

Languages: Python, Go, Bash
Frameworks: Django, FastAPI, Pytest, Pydantic, SQLAlchemy, SocketIO, Crawl4AI, Streamlit, Gin
Developer Tools: Docker, Kubernetes, OpenTofu, GitHub Actions, AWS, GCP, Monitoring, GitOps

EXPERIENCE

DevOps Engineer   October 2024 – Present
Open Healthcare Network   Kochi, India
- Migrated Kubernetes-based deployment from Google Cloud to Amazon EC2 with **Docker Swarm**, optimizing infrastructure costs by **60%**.
- Automated frontend deployment using **Terraform**, serving static files via **Google Cloud Storage** with CDN, ALB, and SSL-enabled security.
- Developed **Bash scripts** to automate backend deployment on **Azure Container Apps**, integrating PostgreSQL Flexible Server, Redis Cache, and S3-compatible storage via **Flexify.IO**.

Backend Engineer   October 2025 – December 2025
NeoSapien   Bengaluru, India
- Improved **Gemini + PyAnnote** speech-to-text pipeline by reducing CER and DER via context engineering, using custom evals against labeled audio benchmarks.
- Migrated **10+ Express.js** endpoints to **FastAPI** and updated unit and integration tests in **Pytest** to align with CI pipeline requirements.
- Prototyped **Chrome extension** in **React** within **24 hours** to validate extending Neo 1 features to online meetings, enabling live audio capture and streaming to backend services.

Software Consultant   February 2025 – April 2025
Embeddings Corporation   Remote
- Built RAG-based AI agent with **Pydantic AI** that streamed responses in real time, crawled sitemaps asynchronously with **Crawl4AI**, and chunked content by smart boundaries (code blocks, paragraphs).
- Created API-based knowledge management system with **Gemini 2.5 Pro** for analysis, **Ollama's nomic-embed-text** for embeddings, and **Supabase** for vector storage and fast semantic search.
- Updated **infrastructure documentation** with self-hosting and deployment guides for AWS.

PROJECTS

superbox.ai | *Go, Python, React, AWS Lambda, WebSocket API, S3, Fargate*   [GitHub]
- Developed **marketplace for MCP servers** with 5-step automated security pipeline (SonarCloud, Trivy, Bandit, Snyk, GitGuardian) and S3-backed registry for centralized discovery and deployment.
- Engineered hybrid backend with **Golang REST API** for server management and **Python CLI** for authentication, security scanning, and tool discovery.
- Designed AWS Lambda–based **sandboxed execution environment** using WebSocket API Gateway for persistent MCP connections, enabling isolated server execution and real-time JSON-RPC communication.

cognito.ai | *FastAPI, Next.js, Elasticsearch, Vertex AI, MongoDB, Google Compute Engine*   [GitHub]
- Developed natural-language **forensic evidence discovery engine** that enables investigators to query massive UFDR device exports using conversational AI instead of manual data searching.
- Built FastAPI backend with **Elasticsearch indexing pipeline** to ingest and normalize UFDR data, enabling **Gemini-based intent analysis** for natural language search over forensic datasets.
- Created **Next.js dashboard** with TypeScript for case management, PDF report generation for forensic documentation, and NextAuth-based session management using **MongoDB**.

Mivro | *Django, OpenFoodFacts API, Manifest V3, Flutter, Firebase, AWS Lightsail*   [GitHub]
- Developed cross-platform app and web extension for **personalized product profiling** in food, drink, cosmetic, medicine, and pet food categories.
- Integrated **Claude API** to **categorize nutrients** based on user-specific health data, **analyse health risks** associated, and **recommend healthier food options** or lifestyle changes.
- Implemented custom searching algorithm using **fuzzy matching** and **keyword clustering** techniques to accurately retrieve products from the database based on complex user queries.