

Darshan Chheda

📞 01234 56789 ✉ email@gmail.com 💻 in/username 🌐 www.darshanchheda.com 📱 1337XCode

Professional Summary

Software engineer with an MSc in Software Development (Queen's University Belfast) and a First Class degree in Finance. Built and shipped AI pipelines, cloud-native microservices, and on-device ML systems across backend APIs, containerised infrastructure, and native Android. Finance background provided hands-on exposure to transaction systems, data modelling, and quantitative methods, directly informing how I approach system correctness and data integrity in software. Right to work in the UK until February 2028 (Graduate Route).

Technical Skills

Languages: Java, Python, JavaScript/TypeScript, SQL, Go, Rust, C++

Frameworks: FastAPI, Node.js, React, Spring Boot

Cloud & DevOps: AWS, GCP, Docker, Kubernetes, GitLab CI, Terraform, Prometheus, Grafana

Databases: PostgreSQL, MongoDB, DynamoDB, Qdrant, MySQL

Tools: Git, Postman, SonarQube, GitHub Copilot, Cursor, Claude Code, Codex

Projects

- AimBuddy** | Kotlin, Jetpack Compose, C++, JNI, NCNN, Vulkan, YOLOv26n, Android NDK | 📄 Source Code Mar. 2026
- On-device Android AI pipeline using YOLOv26n quantised to FP16 via NCNN with Vulkan GPU acceleration, hitting an 8ms detection cycle at 1280x720 on Snapdragon 888+
 - DeepSORT-inspired C++ multi-target tracker with lock-free SPSC ring buffer between capture and inference threads, CPU affinity pinning, and pre-allocated memory pools on all hot paths
 - Full Python training pipeline (Ultralytics, PyTorch, ONNX, NCNN export) with 6 modular scripts covering dataset validation, training, and model export to on-device assets
- PersonaBot** | FastAPI, LangGraph, Qdrant, Groq, Cloudflare Workers, Python | 📄 Live Demo Feb. 2026
- RAG assistant built on a 7-stage LangGraph pipeline with dense + sparse + keyword fusion retrieval, MS MARCO cross-encoder reranking, and citation-grounded generation over Qdrant Cloud
 - Multi-layer API security covering JWT auth, guard classifier, PII sanitisation before LLM calls, and Cloudflare Worker edge rate limiting
 - Evaluated output quality across Llama, Gemma, and Mistral by benchmarking hallucination rates, citation accuracy, and context faithfulness
- TextOps** | Python, Go, Rust, Node.js, Docker, Kubernetes, Prometheus, Grafana, GitLab CI | 📄 Source Code Sep. 2025
- Polyglot microservices system with 5 independently containerised services (Python, Go, Rust, Node.js, Java) behind a unified API gateway, deployed to a private Kubernetes cluster via Rancher
 - GitLab CI/CD pipeline with automated test execution on every commit and zero-downtime rolling deployments to Queen's Private Cloud
 - Prometheus + Grafana observability stack with per-service dashboards tracking request rates, p95 latency, error rates, and resource usage across all pods

Experience

- Quality Assurance Tester Intern** Apr. 2023 – Oct. 2023
Xsilica Software Solutions *Hyderabad, India*
- Tested merchant REST APIs using Postman across transaction initiation, status check, and payout endpoints, validating response codes, error handling, and payload structure against API documentation
 - Assisted with JMeter load testing to simulate concurrent merchant traffic on the PayG transaction pipeline, documenting latency observations that fed into pre-release sign-off reports
 - Identified and tracked 30+ defects in JIRA spanning refund edge cases, API timeout failures, and transaction state mismatches, contributing to measurably fewer post-release issues across consecutive sprints
 - Executed 250+ test cases across 4 release cycles covering manual black-box, regression, and API testing for PayG's payment gateway, including UPI, Dynamic QR, and Virtual POS transaction flows

Education

- Queen's University Belfast** Sep. 2024 – Dec. 2025
Master of Science in Software Development *Belfast, UK*
- Relevant Coursework:** Software Engineering, Databases, Cloud Computing & DevOps, Object Oriented Programming, Web Development, Data Analysis, User Experience Design
- University of Mumbai** 2020 – 2023
Bachelor of Commerce in Finance *Mumbai, India*
- Relevant Coursework:** Databases (SQL), Statistics for Business, Econometrics