

Asel Mansika Kitulagoda

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Summary

Kotlin and Java developer with extensive experience building large-scale distributed applications in investment banking. Track record of delivering high-quality projects across different lifecycle stages, from greenfield development to system decommissioning. Results-oriented with a focus on testable, maintainable systems.

Work Experience

Software Engineer – JUXT - HSBC (Equities Lifecycle Systems) Apr 2025 – Present

- Build a quoting API for equities in the pre-trade lifecycle, enabling booking of structured products
- Design high-performance self-service data store for quants, handling terabytes of data with low-latency access patterns for quantitative analysis
- Enable AI workflows for developers within the equities space, streamlining development processes and improving productivity
- Key contributor to common libraries and service frameworks used across development teams, architecting systems for scalability

Software Engineer Team Lead – JUXT - Giraffe (NCL risk management, UBS) May 2024 – Apr 2025

- Contribute to 70% reduction in total cost of ownership through environment consolidation, portfolio regionalisation, and infrastructure virtualisation
- Act as SME for Giraffe and technical point of contact during audits and legal hold meetings, facilitating the decommissioning process
- Line manager to 12 consultants and contractors; coordinate migration of Giraffe to newly created Zurich datacenter
- Assume role of SME for additional applications within ecosystem following previous team's departure
- Introduce Kotlin into multi-module monolith to facilitate reintegration of microservices; integrate observability stack with proactive alerting

Software Engineer – JUXT - Giraffe (Strategic IB Global Risk Management, CS/UBS) Nov 2022 – May 2024

- Deploy Giraffe-derived microservices onto Azure (AKS), transitioning from monolithic architecture
- Develop dynamic messaging project with Artemis, enabling real-time consumer rebalancing with significant performance improvement
- Provide essential support for business-critical tickets including Overhedge Price Testing, FRTB, FRVAR3 batches
- Create adhoc tooling to address challenges encountered during the equity derivatives migration to UBS
- Engineer multitenancy support for cost optimisation; rewrite Ansible deployments reducing times from 60 mins to 5 mins
- Empower new joiners to quickly become proficient in the Giraffe system by providing guidance and documentation

Software Engineer – JUXT - Emu (Risk Valuation Client, CS) Apr 2021 – Nov 2022

- Build valuation client directing risk workload towards computational grids (both on-prem and cloud)
- Retire legacy valuation client and build Emu multi-mode, advancing system performance and enabling efficient risk workload processing
- Deploy Emu to Azure (AKS), transitioning from on-premise infrastructure
- Implement suite of support tools enabling teams to effectively diagnose and resolve client issues

Software Engineer – JUXT - Artis Works Dec 2020 – Apr 2021

- Key role in early-stage development of Folio, a commodities trading platform for crude, oil and gas markets
- Implement EOD data processing pipelines; integrate and normalise market data from PVM and ICE Brent futures
- Develop interactive charts using React to visualise complex market data and trading trends

Consultant – Sprint Reply UK Oct 2020 – Dec 2020

- Implement full-stack chatbots with NLP modules and live chat integrations using React
- Translate client business requirements into technical solutions; maintenance and troubleshooting with RPA

Teaching Assistant – University of Bristol Sep 2019 – Jun 2020

- Team lead and mentor for agile programming teams in Software Product Engineering unit
- Oversee team progress using Jira and Bitbucket; ensure good programming practices and provide technical guidance

Advanced Systems Intern – Boeing Defence UK Jun 2019 – Sep 2019

- Develop containerised front-end applications using Vue.js, Buefy and Docker in an agile team environment
- Interface with bespoke APIs to build system management components for maritime data collection using Java and Shell

Education

University of Bristol – BSc Computer Science, First Class Honours Sep 2017 – Jun 2020

Technologies

Languages: Kotlin, Java, SQL **Cloud:** GCP, Azure (AKS) **Frameworks:** Ktor, HTTP4K, Spring Boot
Tools: Grafana, Splunk, OpenTelemetry, Ansible, Docker, Redis, MongoDB, PostgreSQL, ArtemisMQ, GitLab CI/CD, Gradle, JUnit, Elasticsearch, Git, Linux