

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)	<i>Apr 2025 – Present</i>
<ul style="list-style-type: none">○ 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)	<i>May 2024 – Apr 2025</i>
<ul style="list-style-type: none">○ 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)	<i>Nov 2022 – May 2024</i>
<ul style="list-style-type: none">○ 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)	<i>Apr 2021 – Nov 2022</i>
<ul style="list-style-type: none">○ 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	<i>Dec 2020 – Apr 2021</i>
<ul style="list-style-type: none">○ 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	<i>Oct 2020 – Dec 2020</i>
<ul style="list-style-type: none">○ 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	<i>Sep 2019 – Jun 2020</i>
<ul style="list-style-type: none">○ 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	<i>Jun 2019 – Sep 2019</i>
<ul style="list-style-type: none">○ 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	<i>Sep 2017 – Jun 2020</i>
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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		