Ali Imran

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Summary & Skills

Software engineer with 4+ years of experience developing robust & performant services across fintech and industrial IoT domains. Passionate about solving challenging technical problems in meaningful & worth-while use-cases.

- **Programming Languages**: Scala (Cats, ZIO), Python, Java (Spring, Micronaut), TypeScript/JavaScript (Node.js, React)
- **Technologies**: SQL (Postgres, SQLite), NoSQL (Cassandra, MongoDB), Kafka, Redis, Docker, Kubernetes, AWS, Alibaba Cloud

Work Experience

Risk Software Engineer January 2023 — Present
Paidy Inc. (a PayPal company) *Hong Kong*

- Developed and maintained Paidy's high performance set of synchronous payment, credit line, and assorted risk authorization services processing millions of daily authorizations operating under strict performance and latency SLAs (p99 $<$ 250ms) amidst complex multi-stage fraud/risk scoring processes and cross-service data aggregation requirements. Used Scala (functional Cats) for the core services and Python (flask) for offline ML-based risk modelling services; all deployed on AWS using Fargate via Docker.
- Led the risk engineering implementation of an automated 5-year account renewal system integrating comprehensive risk scoring, KYC, and credit limit adjustment procedures; processing tens of thousands of accounts monthly with 99.9%+ automation rate. The pipeline encompassing dozens of back-end services implemented primarily in Scala with supplementary Python lambda functions.
- Led risk engineering efforts in investigating root causes, assessing impacts, and implementing remedial actions for a string of P1 (critical) multi-service engineering incidents leading to thousands of customers to become overdrawn on their credit lines. Documented findings, verifications, and corrective actions to be submitted to Japanese Ministry of Economy, Trade and Industry.
- Modernized legacy SQL-based batch fraud detection systems to enable real-time monitoring and automated response, reducing detection and remediation latency from days to seconds. The modernized system utilizing event-driven patterns implemented in functional Scala to assess risk entities (payments/logins/etc.) for fraud in parallel with the sync authorizations as to keep the core authorization hot-loop slim.
- Worked with data science & risk teams in developing payment & credit line fraud assessments implemented in our authorization services leading to savings of millions in JPY monthly.
- Contributed to other diverse back-end initiatives, including enhancing consumer-facing payment rejection notifications for improved transparency, integrating Paidy with Apple Pay for seamless transaction flows, and implementing compliance monitoring tools to ensure regulatory adherence across financial operations.

Software Engineer May 2021 — January 2023
KM.ON by Karl Mayer *Hong Kong*

- Led development of a Java-based API platform enabling remote machine operators to programmatically retrieve telemetry data and issue commands; empowering real-time control and in-house manufacturing execution system (MES) integrations for thousands of textile manufacturing units across global factories. Deployment was done on both AWS and Alibaba cloud using Kubernetes, Docker, Helm charts on ArgoCD.
- Developed Scala-based Identity and Access Management (IAM) services for secure entity authentication and authorization across factory use-cases (e.g. administering machines, delegating access to smart factory functionality); ensuring compliance and reducing unauthorized access risks. The service was deployed on AWS Fargate - with Chinese traffic routed through a Alibaba Cloud 'Cloud Enterprise Network (CEN)' to mitigate network degradation due to the 'Great Firewall'.
- Contributed to organization-wide micro-frontend architecture adoption using TypeScript & React facilitating decoupled UI development accelerating development cycles across all cross-team industrial applications.
- Supported refactoring of critical services for Kubernetes orchestration allowing for cloud-agnostic deployments; greatly reducing friction in China-based operations.

Software Development Intern June 2020 — May 2021
KM.ON by Karl Mayer *Hong Kong*

- Developed Java microservices and supporting infrastructure to ingest and process real-time IoT telemetry data via Kafka, enabling efficient telemetry pipelines in a high-throughput Kubernetes cloud environment.

- Developed CLI (helm, kubectl) wrappers allowing developers secure access to private Kubernetes clusters via SSH jumphost servers.
- Implemented multi-tenant capable Kubernetes CI/CD DevOps processes, allowing parallel developer workflows in testing/deployment/general development.

Data Analytics & Engineering Intern December 2019 — May 2020
Dory Technology *Hong Kong*

- Developed ETL pipelines to extract, transform, and load data from MongoDB to PostgreSQL, streamlining data ingestion for analytics workflows and enabling scalable processing of customer interaction datasets.
- Analyzed customer behavior datasets using Tableau visualizations, uncovering key usage patterns that informed product optimization strategies and improved user engagement metrics
- Built automated dashboards and reporting tools with Node.js integrated to the Google Sheets API, automating weekly data exports and eliminating manual reporting entirely.

Education

City University of Hong Kong Hong Kong
Master of Science in Electronic Information Engineering *Sep 2025 — May 2027*

- Under the Hong Kong Future Talents Scholarship Scheme for Advanced Studies
- Relevant Coursework: Topics In Computer Graphics, Applied Deep Learning, Sustatainable Energy Systems.

The Hong Kong Polytechnic University Hong Kong
Bachelor of Engineering (Honours) in Mechanical Engineering *Sep 2017 — May 2021*

- Specialization: Autonomous systems & control
- Research Assistant (Machine Intelligence Lab, Sep 2020 – Jan 2021): Contributed to an autonomous robotic welding project, developing and implementing curve-fitting algorithms for hand-gesture-based trajectory planning from dense point cloud data, enabling precise robotic arm position/orientation control and tracking.
- Bachelor's Thesis: A SLAM-capable (Simultaneous Mapping and Localization) robot for search and rescue applications.