

Felix Huang

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SUMMARY

Full-stack engineer specializing in scalable AI-driven products across backend, cloud, and iOS, with deep experience in **Golang, Python, SwiftUI**, distributed systems, and cost-optimized cloud architecture; **Canadian Permanent Resident**

WORK EXPERIENCE

Skillbloom

Full Stack Developer

Vancouver, Canada

Dec. 2024 - Present

- Key contributor to an **AI-powered language learning app**, owning both backend microservices and iOS application architecture in a fast-paced startup environment
- Engineered a scalable backend system in **Golang**, consistently handling peak loads of **100 QPS** at **p95 latency under 390ms**, by designing RESTful APIs for user authentication (**OAuth 2.0**) and subscriptions and establishing a graceful degradation plan that served cached content during LangChain processing
- Ensured **99.5% service availability** by building a fully automated CI/CD workflow and resilient cloud infrastructure in **Terraform** and **Docker**; adopted **Container Apps** for cost-effective scalability, holding performance through traffic spikes while reducing idle cost
- Delivered a **30% improvement in perceived load times** by architecting a responsive iOS data layer in **SwiftUI** and **MVVM**, consuming backend APIs at <190ms and leveraging **SwiftData** with asynchronous loading strategies to prevent UI blocking, even on low-end devices

Outlier

AI Trainer

Remote, Canada

Feb. 2025 - Jul. 2025

- Rewrote AI-generated frontend responses with a strong emphasis on improving **UI aesthetics and visual consistency**
- Modified and optimized code in **HTML, CSS, JavaScript, Next.js** and **TailwindCSS** to align with modern frontend design standards; provided detailed feedback to enhance the model's ability to generate clean, visually appealing and semantically correct frontend code

Tencent

Data Analyst Intern

Remote

Oct. 2021 - Jan. 2022

- Collected and managed **large-scale datasets** from Tencent WeSee spanning user clicks, stay time, video performance metrics and advertising data; ran complex queries to analyze user preferences, distribution and behaviour, and surfaced trends in popular topics from short-video metadata, interaction data and ad performance
- Applied **Python** and **Pandas** for data cleaning, transformation and processing to ensure high-quality inputs for analysis, and built detailed interactive visualizations in **Tableau** to present insights and trends to management

Job Sub

Founding Engineer

Remote

June. 2026 - Aug. 2026

- Built a **serverless job-alert platform** that monitors company career pages, detects new roles, parses postings with **LLMs**, matches them against subscriber preferences and sends targeted email alerts
- Designed a configurable **ATS adapter system** supporting Greenhouse, Ashby, Workday, Lever, iCIMS, Oracle Cloud and Workable, currently tracking **102 companies** on a 5-minute polling schedule
- Implemented an LLM-based parsing and deterministic matching pipeline with **DynamoDB idempotency controls** to prevent duplicate alerts under at-least-once **SQS** delivery

PROJECT EXPERIENCE

Real-Time Transaction Risk Data Platform — *Kafka/Redpanda, Debezium CDC, PySpark, Delta Lake, Avro/Schema Registry, Redis, XGBoost*

- Built a **real-time transaction risk data platform** using **CDC** (Debezium) to stream every transaction and risk decision from PostgreSQL into **Kafka** (Redpanda) via a transactional outbox, eliminating dual-write inconsistency between business state and event stream
- Designed a three-tier **Delta Lake** lakehouse (Bronze/Silver/Gold on **MinIO**) with **PySpark Structured Streaming** jobs performing schema validation and quarantine routing, with all derived state (Kafka, Redis, Silver/Gold) fully rebuildable from Postgres and immutable Bronze history via a replay pipeline
- Implemented idempotent, checkpointed streaming writes with **event-ID deduplication** via Delta MERGE to guarantee no data loss or duplication under at-least-once Kafka delivery, enforced schema contracts with **Avro + Schema Registry** under FULL compatibility (CI-gated), and validated all guarantees with an automated **chaos-testing** harness injecting duplicate, invalid, corrupt, and late-arriving events

EDUCATION

University of British Columbia <i>Master of Electrical and Computer Engineering, 87%</i>	Vancouver, Canada Sep. 2022 - May. 2024
Dalhousie University <i>Bachelor of Computer Science, First-Class Honours, 4.1/4.3</i>	Halifax, Canada Sep. 2018 - May. 2021

SKILLS

Languages: Golang, Python, TypeScript, Node.js, HTML, CSS, Terraform
Frameworks & Tools: Azure, Docker, gRPC, PostgreSQL, MongoDB, PyTorch, LangChain, React.js, Swift, Git