

Yousef Issa

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EXPERIENCE

Plaid

Aug 2022 – Present

Senior Software Engineer | Tech Lead, Core Product Data

Lead architecture and delivery across Investments, Liabilities and Transactions, powering leading financial apps and services with **5B transactions daily** across hundreds of millions of accounts.

- Architected Calculated Balance with Kafka/SQS workers and TiDB at **~1.5K requests/sec**, saving **~\$6M annually** in bank retrieval costs while preserving balance accuracy. Combined institution-aware refreshes, transaction-derived updates and fallbacks; led rollout with Product, Data Science and Storage.
- Led Investments Move from concept through launch, creating a brokerage-transfer product now generating **\$3M ARR** and driving adoption of other Plaid products. Architected APIs and reusable extraction/enrichment workflows with institution-aware fallbacks, increasing conversion **2.7×**.
- Rearchitected Investments' Go/gRPC securities service on TiDB, separating vendor/customer data via a zero-downtime dual-write migration. **Halved median enrichment latency** and fixed defects behind **thousands** of customer tickets, unlocking new client deals and powering downstream products.
- Revitalized Liabilities after identifying a **~20M-account coverage gap**; led **four engineers** across teams to expand Go APIs, ingestion and batch processing. Launched backward-compatible loan, credit-line and BNPL support, opening new client and revenue opportunities.
- Grew Investments' delivery capacity by onboarding **four engineers**, guiding designs and delegating milestones within larger projects. Created service playbooks adopted across Financial Management.
- Led technical partnerships with key clients and launched Move's 401(k) expansion in **one month**, reusing transfer workflows, delegating implementation and aligning Product and partner engineering teams.
- Modernized a MySQL securities service handling **200M+ holdings/day**, improving query performance **65%**. Standardized TypeScript extractors and data models, increasing extraction fill rate **40%**.

Zumper

Jun 2020 – Aug 2022

Software Engineer | Data & ML Platform

Earlier internships: 2018 & 2019

- Built Python/FastAPI microservices and caching for data-science and ML workloads, cutting resource use **90%** and AWS costs **\$50K/month**.
- Architected email delivery on Django and AWS SQS/Lambda, sustaining **20M+ emails/month** with **99.9%** delivery reliability. Built Airflow pipelines and A/B testing that lifted click-through rates **40%**.
- Modernized a legacy Python monolith into services and standardized Docker/Kubernetes/Terraform templates, accelerating new service deployment **30%**.

Zenu Software

Dec 2016 – Dec 2020

Founder

- Founded a retail automation platform reaching **100K+ users** and **\$2M+ ARR**. Built Node.js, Redis and Kubernetes infrastructure with BGP routing to support **50K+ concurrent users**.

EDUCATION AND RECOGNITION

Northwestern University | BS in Computer Science

June 2020

Kleiner Perkins Engineering Fellow

TECHNICAL SKILLS

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

Frameworks and APIs: FastAPI, Django, Node.js, React, Flask, Express, gRPC, Protobuf

Data and messaging: TiDB, PostgreSQL, MySQL, Redis, MongoDB, Elasticsearch, Spark, Airflow, Kafka

Cloud and operations: AWS, Kubernetes, Docker, Terraform, Jenkins, Prometheus, Grafana