Daniel Whitfield

Staff Software Engineer · Distributed systems and data infrastructure

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PROFILE

Staff engineer with nine years of Python experience across fintech and SaaS. Currently leading data infrastructure at Maple Systems in Toronto, where I own the event pipeline that feeds risk and reporting for 2 million accounts. Strong track record of mentoring and of shipping boring, reliable systems.

EXPERIENCE

Staff Software Engineer, Maple Systems · Toronto Jan 2021 – present

- Own the event ingestion pipeline: FastAPI edge services, Kafka, PostgreSQL and ClickHouse, processing 1.2 billion events a day.
- Designed the exactly-once delivery layer between Kafka and PostgreSQL that removed a class of duplicate-posting incidents.
- Chair the architecture review board; mentor four engineers, two promoted to senior in 2025.
- Own CI/CD for the data platform: GitHub Actions, Argo CD, Kubernetes on EKS.

Senior Software Engineer, Shoreline Payments · Toronto Jun 2017 – Dec 2020

- Built the settlement reconciliation service in Python and PostgreSQL; cut month-end close by two days.
- Introduced RabbitMQ for asynchronous notifications and retired a polling-based legacy system.
- Led the move to Kubernetes and wrote the team's deployment runbooks.

Software Developer, Great Lakes Software · Waterloo May 2016 – May 2017

- Developed Django applications for municipal permit processing.

TECHNICAL SKILLS

Languages: Python (asyncio, FastAPI, Django, pytest), SQL, Go, TypeScript
Data and messaging: PostgreSQL, Kafka, RabbitMQ, ClickHouse, Debezium
Platform: Kubernetes (EKS), Argo CD, GitHub Actions, Terraform, Datadog
Practices: architecture reviews, incident command, mentoring, hiring

EDUCATION

BMath Computer Science, University of Waterloo, 2016

CERTIFICATIONS

AWS Certified Solutions Architect, Associate, 2022

LANGUAGES

English (native), French (B2)