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WORK EXPERIENCE

Member of Technical Staff

P-1 AI | Platform Engineering

May 2026 - Present

Vancouver, BC

- Built P-1's **bring-your-own-cloud Kubernetes platform from scratch**, reaching customer production in **three months**. Developed the Go/Kubebuilder operator and composable Helm system that deploys the full product from a single declarative specification.
- Enabled enterprises to run P-1 entirely within their own VPC and compliance boundary, including **air-gapped environments**, while keeping internal and customer installations on one deployment path.
- Owned production deployment and release operations across P-1's customer fleet. Built **GitOps reconciliation, pinned release promotion, and centralized observability** to prevent drift and diagnose failures without direct cluster access.

Senior Software Engineer II

Confluent | Control Plane - Metadata Storage

June 2024 - May 2026

Vancouver, BC

- Led **Watch (CDC) scalability** for Confluent's multi-cloud resource management platform across **AWS, Azure, and GCP**, spanning storage, caching, APIs, and production operations.
- Architected and shipped a pod-local caching system using **SQLite** and **Kafka CDC**, reducing **p99 Watch API latency** by about **80 percent**; evaluated SlateDB as an alternative and contributed open-source Go bindings.
- Built a **multi-region replication layer** for global and regional resources, enabling in-region access characteristics and stronger disaster recovery.
- Redesigned List and Watch behavior on Azure Cosmos DB, improving latency by **15x**, reducing consumed capacity by **8x**, and driving more than **\$400,000** in annual savings.
- Decoupled a core platform component into an independent **gRPC service**, enabling independent deployment, scaling, and clearer ownership boundaries.
- Established production observability through **dashboards, alerts, and runbooks**, and supported incident response as part of the on-call rotation.

Software Development Engineer II

Amazon | Marketplace Tax and Accounting Team

September 2022 - June 2024

Vancouver, BC

- Built and operated microservices in Amazon Retail accounting and tax workflows, serving up to **2,000 TPS**.
- Eliminated **\$503MM** in accounting errors by designing a generic seller-classification fix and deploying it globally across services and regions.
- Led extraction of a key component from another team's service into a standalone service, cutting development delays by roughly **80 percent** while removing significant tech debt.
- Built an asynchronous verification path to validate new services pre-migration without impacting production performance.

Software Development Engineer I/II

Amazon | Alexa AI Dynamic Routing

May 2020 - September 2022

Seattle, WA

- Developed and operated a highly available, low-latency service in the Alexa request path, serving up to **13,000 TPS** and routing requests to partner services.
- Expanded the rule engine's expressivity without degrading performance, giving partner teams finer-grained traffic controls and improving routing accuracy.
- Designed and developed instrumentation to verify correctness and measure performance during migration to a new ReactiveX-based architecture.

Full Stack / Quantitative Developer

Lucena (Neuravest) Research

March 2019 - May 2020

Atlanta, GA

- Deployed a containerized integration with **Interactive Brokers**, enabling clients to move proprietary strategies into live trading.
- Designed market-beating strategies for multiple data providers using statistical and AI techniques to demonstrate the value of supplied data.
- Developed ETL pipelines for client datasets and public market data from Bloomberg and Refinitiv.
- Developed and operated the core backtesting framework and client-facing web application.

Internships, Teaching and Research

2016 - 2018

Atlanta, GA

- IBM Security**, Software Developer Intern: Built a QRadar SIEM visualization app and an award-winning VR communication tool. **Elavon**, **US Bank**, Software Developer Intern: Supported organization-wide DevOps tooling and improved Commerce SDK test coverage.
- Georgia Tech**, Teaching and Research Assistant: Taught object-oriented design, mentored Android project teams, and built web and Android tools for HCI password-management research.

EDUCATION

B.Sc. Computer Science

Georgia Institute of Technology

Concentration in Intelligence and Information Internetworks

GPA: 3.82 / 4.0

2015 - 2018

Atlanta, GA

TECHNICAL SKILLS

Languages: Go, Java, Python, SQL, Shell

Cloud / Infra: AWS, Azure, GCP, Terraform, Kafka, Docker, Kubernetes