

Geoffrey Lee

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Education

University of Waterloo, Bachelor of Software Engineering

April 2028

- **Cumulative GPA:** 3.85 / 4.0
- **Courses:** Advanced Algorithms, Data Structures, OS, Databases, Compilers, Signals & Systems, Statistics
- **Competitive Programming:** Globally ranked <1% (2540/12M+ users [↗](#))

Skills

- **Languages:** Python, C++, C, Java, TS/JS, Bash, SQL
- **Technologies:** Kubernetes, Docker, gRPC, Redis, CockroachDB, PostgreSQL, Temporal, GraphQL, NumPy, FastAPI, Rails, NodeJS, NextJS, React, Git

Experience

Walleye Capital

Software Engineer Intern

Incoming

New York, New York

- Incoming Software Engineer, Quantic (Quantitative Strategies).

Atoms

Software Engineer Intern

May – Aug 2026

New York, New York

- Developed core payout infrastructure using **Java**, leveraging gRPC, Temporal workflows, and Kafka event streams, processing **\$500M** in transaction volume. (Featured by the CTO [↗](#))
- Reduced payout times by **30x (10 hours to 20 minutes)** for stalled merchants via a **checkpoint-jump optimization** that skips over transaction-free gaps, restoring settlement for **200+** blocked merchants.
- Built infrastructure for **org-level payouts** by creating a Temporal workflow that queries & aggregates monetary transactions into Stripe payout statements, with retry handling, auditing, tax reporting, and observability.

Biztrip AI

Software Engineer Intern

Sep – Dec 2025

San Francisco, California

- Implemented a sliding-window **min-heap algorithm** with lazy deletion to identify cheaper flight rebooking options within a 3-hour window, improving matching from **O(NK)** to **O(NlogK)**, cutting latency by **20ms**.
- Developed a **proactive AI travel agent** that parses relevant calendar signals to orchestrate flight & hotel itineraries, saving **500h+** annually in corporate travel coordination.

Shopify

Software Engineer Intern

Jan – Apr 2025

Toronto, ON

- Shipped a checkout autofill feature that pre-populates tokenized payment and address data, **cutting ~90 seconds** off checkout times, lifting conversion rates by **4.8%**; built using Rails and GraphQL.
- Ran **A/B experiments** on an added onboarding step highlighting subscription plans within a 4-step signup flow, boosting early-stage conversion by **4%** and projecting **\$8M+** in ARR; built using React and TypeScript.

RideCo

Software Engineer Intern

May – Aug 2024

Waterloo, ON

- Engineered a **real-time vehicle-tracking** platform processing millions of daily GPS pings with optimized linear interpolation/debouncing algorithms, fully adopted by 100% of the dispatch operations team.
- Shipped a ride-replay visualization tool to accelerate incident investigations, cutting **\$300K** in costs across **850 incidents** and saving **2,300+ hours** annually.

Projects

- [↗ Echo Cache](#): A distributed in-memory cache in **C++** with scalability and fault tolerance.
- [↗ Outreachyr](#): A platform to help students source university recruiters; **10K+ impressions, 120 users**.
- [↗ Bisect](#): An AI tool designed to isolate for regressions via binary search, then auto-generating patch PRs.

Hobbies & Interests

Marathon Running · Math/Computing Contests · Chess · Poker · Magic/Cardistry