

CHRISTOPHER HUI

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EDUCATION

University of British Columbia

B.Sc. Computer Science | Dean's List | GPA: 89.9%

Vancouver, BC

Sep 2017 – May 2022

EXPERIENCE

Stripe

Software Engineer

New York, NY

Aug 2024 – Current

- **Expanding Stripe's market by 20M users:** Drove end-to-end delivery of PayPay, Scalapay, Bizum in **Ruby, React** for users in Japan/Spain/Italy markets, then identified friction points in the onboarding process and implemented Turnkey automation reducing future cohort delivery time from 12 to 7 weeks.
- **Prevented \$350K losses and expanded Amazon Pay capabilities:** Supported billing address integration enabling Stripe Checkout compatibility, prevented critical platform failures through proactive monitoring and synthetic testing, and implemented preventive measures ensuring Amazon Pay reliability across Stripe platforms.
- **Saved \$100K-\$2M annually through cost estimation improvements:** Built Fee Model Diff Viewer and Verification preventing costly modeling errors and reducing true-up reconciliation costs. On top of core responsibilities, identified team development gaps and pioneered frontend testing, TypeScript migration, and functional React adoption.
- **Built AI automation reducing run overhead by 60%:** Identified repetitive run tickets and significant manual investigations, then created Jira-LLM integration by linking related issues and establishing predictive solutions to solve roughly 80% of all run tickets.

Citadel

Software Engineer

New York, NY

Aug 2022 – Jun 2024

- Full stack developer in **C++**, **Java** to create a next-gen platform for reconciliation of all trades in Citadel against over 500 brokers and created a UI platform to display breaks in **React** for operation users.
- Designed and created two new services which consumes real-time notifications from all services in **Kafka**, allowing users to see exact progress and status of reconciliation, cutting down investigation time of issues from 5 to 1 minute.
- Implemented two key components for onboarding prime broker accounts: An account onboarding tab to replace 3 configuration tabs into 1 centralized view, reducing account setup from 15 minutes to 2 minutes, and account status widgets to display newly added accounts, broker file history, and unmapped files.
- Unblocked go-live requirements for matching broker files by working on over 25% of all file normalization tickets in providing more advanced parsing techniques, such as value maps, file fields, and financial and clearing lookups.
- Delivered several critical UI components required for daily reconciliation resolution for operation users, including manual actions, searching for history of breaks, and configurations required for a match run.
- Involved in solving over 75 on-call tasks despite limited knowledge of legacy systems and took full ownership of understanding what improvements could be made for each support ticket that was raised.

Akuna Capital

C++ Development Intern

Chicago, IL

Jun 2021 – Aug 2021

- Researched and benchmarked techniques to reduce latency on FPGA driven high frequency trading system.
- Reduced latency for sending messages to the FPGA from 1.62ms to 1.41ms by decreasing cache pollution using write combining nontemporal stores over regular stores.
- Increased cache hit rates using software prefetching on PCIe ring buffer, optimizing writes from 1.26ms to 1.24ms.

RELEVANT SKILLS

Languages: Python | C++ | C | Java | SQL | JavaScript | TypeScript | HTML/CSS

Frameworks/Technologies: GRPC | React | Spring | Hibernate | Kafka | Kubernetes

ACHIEVEMENTS

10th @ ACM-ICPC Pacific NW:	Oct 2019	Top 5% @ FB Hacker Cup Qualifying:	Jul 2020
Top 10% @ Hashcode Qualifying:	Feb 2020	Top 15% @ Kickstart Round D:	Jul 2020