

Samuel Yang

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, GraphQL, PHP, Java, Ruby, C, C++, Python, Scheme

Web Tooling: Express.js, Angular 2+, React, jQuery, Tornado, Sinatra, Ruby on Rails

Data Storage: PostgreSQL, MySQL, Redis, Firestore, MongoDB, Elasticsearch

Developer Operations: Webpack, Docker, Kubernetes, Kibana, CircleCI, Amazon EKS/EC2, Git, SVN, Perforce

EDUCATION

Honors Bachelor of Computer Science (4.0 GPA) | University of Waterloo

(Expected) **2017 - 2022**

EXPERIENCE

Hack the North | Backend Team Lead

Waterloo, ON

Feb 2019 - Present

- Planned and managed a complete backend migration to GraphQL, improving frontend developer workflow
- Gathered requirements and planned timelines with frontend team to ensure timely delivery of projects
- Developed and maintained a Python API to support loads of up to **400 req/min**, averaging 28ms response time
- Implemented new participant registration flow to vastly increase check-in efficiency for **2000+ attendees**
- Executed the world's largest student-run hackathon with **1500+ hackers** attending from **30+ countries**

Coinbase | Software Developer Intern, Payments

(Remote) San Francisco, CA

May 2020 - Aug 2020

- Migrated payments processing services to Rails, improving code consistency and reliability for **\$100 million** worth of monthly transactions while also reducing developer onboarding time
- Laid groundwork for providing new payment methods for institutional customers, enabling multi million dollar international transactions via SEPA, Swift, Fedwire, and SEN (Silvergate Exchange Network)
- Assisted on-call engineers with resolving a severity 1 incident risking \$100 million in customer funds
- Designed and deployed a standardized data migration process, reducing security footprint by 30%
- Implemented code-level automated runbook inspection, reducing on-call Pagerduty resolution time by 30%

Salesforce | Software Developer Intern

San Francisco, CA

Sept 2019 - Dec 2019

- Designed and developed a Python tool to analyze similar stack traces and automatically triage over **12000** test failures between feature branches, enabling developers to isolate critical test failures before release
- Implemented a Jetty interceptor providing HTTP insights, allowing engineers to quickly identify server errors
- Increased code coverage by **50%** in untested packages with JUnit, improving overall software reliability
- Coordinated with Splunk and Security teams to upload core startup times to existing Splunk infrastructure

North (Google) | Cloud Services Developer Intern

Kitchener, ON

Jan 2019 - Apr 2019

- Implemented a RESTful Node.js service to power a Spotify integration used by over **50%** of all active users
- Drove a department-wide effort to upgrade a legacy documentation portal, designing and implementing new architecture, resulting in all existing documentation becoming OpenAPI 3.0 compliant
- Managed, designed (UI/UX), and developed a React + Node.js internal tool for rapid feature prototyping
- Configured automatic Kubernetes deploys with Amazon EKS and test automation through CircleCI

OpenText | Software Developer Intern

Toronto, ON

May 2018 - Aug 2018

- Implemented a back-end data caching system with Java to reduce browser page load time by **95%**
- Designed a compression method with JavaScript to reduce browser memory usage by **88%**
- Created a JavaScript plugin to provide cross-browser support for HTML tables with over **1 million rows**

AWARDS

Best UI/UX Hack | PennApps XVII

Jan 2018

Nortel Institute Undergraduate Scholarship | University of Waterloo

Sept 2017

Governor General's Academic Medal - Bronze | Markville Secondary School

June 2017