Samuel Yang

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TECHNICAL SKILLS

Languages: JavaScript, PHP, Java, C, C++, Python, Scheme, TypeScript
Web Tooling: Express.js, Angular 2+, React, jQuery, Laravel, Wordpress Core, Tornado
Data Storage: PostgreSQL, MySQL, Redis, Firestore, MongoDB, ElasticSearch
Developer Operations: Webpack, Docker, Kubernetes, Kibana, CircleCI, Amazon EKS/EC2, Git, SVN, Perforce

EXPERIENCE

Salesforce.com | Software Developer Intern   *San Francisco, CA*   **Sept 2019 - Present**
- Designed and developed a Python tool to analyze similar stack traces and automatically triage test failures between feature branches, enabling developers to isolate new test failures before release
- Increased code coverage by **50%** in untested packages with JUnit, improving overall software reliability
- Built a Splunk dashboard tracking core app startup times to easily identify possible performance regressions
- Coordinated with Splunk and Security teams to upload core startup times to existing Splunk infrastructure

Hack the North | Backend Developer   *Waterloo, ON*   **Feb 2019 - Present**
- Dockerized codebase to accelerate development, improve scalability, and ensure compatibility on all platforms
- 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**
- Coordinated with organizers and volunteers to execute the world's largest student-run hackathon, with **1500+ hackers** attending from **30+ countries**

North | Cloud Services Developer   *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   *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%**
- Developed a JavaScript delta encoding algorithm to reduce network load by only sending modified data
- Created a JavaScript plugin to provide cross-browser support for HTML tables with over **1 million rows**

PROJECTS

Biquadris | CS246 Final Project   **Dec 2018**
- Developed a memory-efficient multiplayer tetris game using C++11
- Designed and implemented event-driven architecture to dynamically dispatch customizable actions
- Created a trie-based command interpreter linked with the event system to support player actions

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**

EDUCATION

Honors Bachelor of Computer Science (4.0 GPA) **|** University of Waterloo   (Expected) **2017 - 2022**