

Vincent Chou *Aspiring Software Developer*



Work Experience

Amazon - Fulfillment Tech. Team

June 2018 - Present

Software Development Engineer Intern

- Implemented performance improvements in the team's Memcached, distributed caching architecture to decrease service-level latencies and improve accuracy of cached data
- Replaced legacy S3 API's with near real-time Elasticsearch queries, reducing code complexity, improving extensibility, and decreasing average latencies by 625%
- Optimized Elasticsearch aggregations to query-filter to reduce cluster load and computation time

Vena Solutions – Integrations Team

May – September 2017

Software Developer Co-Op

- Developed a data mapper to apply multi-step transformations for migrating data cross-platform
- Increased code coverage by over 3000+ lines through unit testing, using Mocha/Chai/Sinon.js and API test suites using Postman & Newman
- Refactored codebase responsible for handling ETL jobs, improving readability & maintainability

INKspire – Engineering Team

May – September 2017

Front-end Developer Co-Op (Part-time)

- Integrated CKEditor into the INKspire platform, providing rich text-editing and intuitive UI
- Implemented real-time saving using Google Firebase's Realtime Database to prevent data loss, improve usability, and improve collaborative editing

Education

University of Toronto

2015 - Present

Bachelor of Applied Science - Mechanical Engineering 4th Year

Coursera – UC San Diego: Data Structures, Algorithmic Toolbox, Algorithms on Graphs

Technical Skills

- **Languages:** Java, Type/Javascript, CSS, HTML5, Matlab, SQL, Python
- **Frameworks & Libraries:** Spring, Junit + Mockito, Elasticsearch, Node.js, jQuery, Backbone.js, Express.js, Memcached, Flask

Engineering Projects & Volunteering

VEEP – Executive Team

May 2017 - Present

Director of Operations

- Development of VEEP program structure and processes to improve project completion rate
- Management & training of VEEP associates to increase executive team efficiencies

Publications

Dallas, C., Wu, M., **Chou, V.**, Liberzon, A., and Sullivan, P., 2019. "GPU Accelerated Open Source Particle Image Velocimetry Software for High Performance Computing Systems". *Journal of Fluids Engineering*, (Accepted, in press).