




Kevin Peng

Bachelor of Software Engineering
University of Waterloo, Class of 2020

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EXPERIENCE

🍏 Apple | Data Engineering Intern

Cupertino, California, 2017

- Architected an online data entry system for use in overseas factories which enabled a 33% increase in automatic data processing with an estimated **\$200,000/year** in savings
- Prototyped a new ETL pipeline with **50% faster data processing** and evaluated its costs, saving **\$50,000+** from the project's infrastructure expenses
- Designed a **machine learning classifier (SVM)** to adjust reliability specs based on product returns

Shopify | Production Engineering Intern

Ottawa, Canada, 2016

- Proposed and developed a reverse proxy in **NGINX** and **Chef** to cache dependencies which allowed **40% faster** download and mitigating upstream outages
- Architected a package management system to modularize functionality for Shopify's developer automation tool, built using Ruby and Bash

Petro Recruit | Technical Co-founder

Calgary & Waterloo, Canada, 2015

- Led a small team of developers to build a web app for scraping and classifying job postings
- Implemented a **naïve bayesian** classifier to automatically categorize scraped jobs
- **Raised \$40,000+** in an initial funding round and published **3,000+ postings**

Velocity Garage | Software Developer Intern

Waterloo, Canada, 2014

- Created a data processing tool using Python to aggregate and sanitize **millions of data rows**
- Built dashboard graphs and visuals in D3.js to plot processed data

SELECTED PROJECTS

- **Web Crawler and Scraper:** extracts web page data and creates corresponding SQL records
- **Compiler:** compiles a subset of Scala using CYK parsing, type checking and MIPS architecture

SELECTED DISTINCTIONS

- **Entrepreneurial:** Eastern Canada Student Energy Conference Innovation Award
- **Volunteering:** Waterloo Neighborhood Community Volunteer Scholarship
- **Academic:** Waterloo President's Scholarship of Distinction (95+ high school average)
- **Competition:** Silver Medal and Best in Category of Information at Canada-wide Science Fair

SKILLS

Languages

Ruby · C++
Scala · JavaScript
Python · Bash

Infrastructure

Chef · PostgreSQL
NGINX · Cassandra
NoSQL · Docker · AWS

Data Science

Spark · scikit-learn
Elasticsearch · pandas
TensorFlow · Tableau

Web Development

Ruby on Rails
Ember.js · Bootstrap
HTML · CSS