

Kevin Peng

University of Waterloo

Bachelor of Software Engineering, 2015-2020 (expected)

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EXPERIENCE

Apple

Jan—April 2017

Software Engineering Intern

Cupertino, USA

- Proposed and implemented a data entry process in overseas factories, for data acquisition targeting the remaining 25% of product reliability data; built with **Ember.js** and **Ruby on Rails**
- Prototyped 50% faster data processing **ETL** architecture with **Spark** and evaluated costs
- Developed a **machine learning classifier** to adjust reliability specs based on product returns
- Took initiative to reach out and collaborate with teams across Apple, leveraging expertise

Shopify

May—Aug 2016

Production Engineering Intern

Ottawa, Canada

- **Internal Tooling**: contributed to a command-line tool used by all developers to construct development environments with a unified workflow, built with **Ruby**, **Bash**, **Go** & **Swift**
- Architected a package management system, to support extensions for the tool
- **Developer Infrastructure**: built a reverse proxy in **NGINX** to cache dependencies
- Optimized deploy and install time to be 7% faster while mitigating upstream outages

Petro Recruit

Sept 2015—Aug 2016

Technical Co-founder

Calgary & Waterloo, Canada

- Built **Ruby on Rails** app (petrorecruit.ca) for aggregating & classifying job postings
- Created a scraping system to generate a corpus of postings, in **Ruby**
- Implemented a **naïve bayesian** classifier to categorize scraped job postings
- Raised \$40,000+ in funding and published 3,000+ postings

Velocity Garage

June 2014—Aug 2014

Data Engineering Intern

Waterloo, Canada

- Created a data processing tool in **python**, used to aggregate & sanitize millions of data rows
- Built dashboard graphs and visuals in **D3.js** to display the processed data

SELECTED PROJECTS

All project source code available on GitHub (@kevintpeng)

- Web Crawler & Scraper: **Ruby** tool for searching web pages and extracting data
- Learn Something Every Day: thoughts on outside of school readings and research papers
- Paxos Video: **JavaScript** app aimed to achieve multi-client video synchronization
- Rubik's Cube Solver: **Java** app that determines 98 quarter turn solutions on average

SELECTED DISTINCTIONS

- **Competition**: Canada-wide Science Fair Silver Medal & Best in Category of Information
- 3x Gold Medalist & 2x Best in Category at the Waterloo Science and Engineering Fair
- **Entrepreneurial**: Eastern Canada Student Energy Conference Innovation Award
- **Volunteering**: Neighborhood Community Volunteer Scholarship
- **Academic**: Waterloo President's Scholarship of Distinction (95+ high school average)

SKILLS

Languages

Ruby · JavaScript
Scala · Python · C++
C · Bash

Data Science

Spark · scikit-learn
Tensorflow · Tableau
Elasticsearch · SQL

Data Infrastructure

Chef · PostgreSQL
NGINX · Cassandra
Docker · AWS

Web Development

Ruby on Rails
Ember.js · HTML
CSS · Wireshark