




# Kevin Peng

University of Waterloo  
Software Engineering, 2015-2020 (expected)

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## EXPERIENCE

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### **Apple**

Software Engineering Intern

January — April 2017  
Cupertino California, USA

- Proposed, designed and implemented new data entry process for Apple's reliability data system using **Ember.js** and **Ruby on Rails**; now used in factories overseas
- Prototyped 50% faster data processing architecture with **Spark** and evaluated costs
- Developed a **machine learning classifier** to adjust reliability specs based on returns
- Took initiative to reach out and collaborate with teams across Apple for mentorship

### **Shopify**

Production Engineering Intern

May — August 2016  
Ottawa Ontario, 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**
- 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**

Technical Co-founder

September 2015 — August 2016  
Calgary Alberta, 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 aggregated 10,000+ postings

### **Velocity Garage**

Data Engineering Intern

June 2014 — August 2014  
Waterloo Ontario, Canada

- Created a data processing tool in **python**, used to sanitize millions of data rows

## SELECTED PROJECTS

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All project source code available on GitHub (@kevintpeng)

- Web Crawler & Scraper: **Ruby** tool for searching web pages and extracting data
- Learn Something Every Day: Daily notes on CS & Math topics to expand breadth
- Paxos Video: **JavaScript** app aimed to achieve multi-client video sync
- Rubik's Cube Solver: **Java** app that solves in 98 quarter turns on average

## SELECTED DISTINCTIONS

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- **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 avg.)

## SKILLS

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### **Languages**

Ruby · JavaScript  
Python · Scala · C++  
C · Java · Go

### **Data Science**

Spark · scikit-learn  
Tensorflow · Tableau  
MapReduce · Turi

### **Data Infrastructure**

Chef · PostgreSQL  
NGINX · Cassandra  
AWS · Google Cloud

### **Web Development**

Ruby on Rails  
Ember.js · D3  
HTML · CSS