Kevin Peng

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

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EXPERIENCE

Apple
Software Engineering Intern

Jan—April 2017
Cupertino California, 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 for mentorship

Shopify
Production Engineering Intern

May—Aug 2016
Ottawa ON, 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

Sept 2015—Aug 2016
Calgary AB & Waterloo ON, 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
Data Engineering Intern

June 2014—Aug 2014
Waterloo ON, Canada

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

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: Daily notes on CS & Math topics to expand breadth
- 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	Data Science	Data Infrastructure	Web Development
Ruby · JavaScript	Spark · scikit-learn	Chef · PostgreSQL	Ruby on Rails
Scala · Python · C++	Tensorflow · Tableau	NGINX · Cassandra	Ember.js · HTML
C · Java · Go	MapReduce · SQL	Elasticsearch · AWS	CSS · Wireshark