# Kevin Peng

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## PROFESSIONAL EXPERIENCE

#### SHOPIFY PRODUCTION ENGINEERING INTERN

Ottawa ON | Summer 2016

- took ownership of problems, proposing solutions and leading discussion among production engineers for feedback to iterate on solutions
- Internal Tooling: developed a command-line tool in ruby and bash that constructs development environments and provides a unified workflow across hundreds of active Shopify projects
- architected a package management system, to support extensions to the command-line tool
- Developer Infrastructure: built a reverse proxy in NGINX that caches dependencies
- optimized bundle install to be 7% faster while mitigating the impact of upstream outages
- deployed on AWS EC2, using Chef

#### **CO-FOUNDER & FULL STACK DEVELOPER AT PETRO RECRUIT**

Calgary AB / Waterloo ON | Summer 2015-Present

- built Ruby on Rails application (petrorecruit.ca), for aggregating & classifying job postings
- created automated scrapers and performed network analysis with Wireshark and TCP/IP
- architected system infrastructure, including Elasticsearch, SQL database & background jobs
- raised \$40,000+ in funding and aggregated 3000+ job postings

#### DATA ENGINEERING INTERN AT VELOCITY GARAGE

Waterloo ON | Summer 2014

- created a data processing tool in python, used to aggregate and sanitize millions of data entries
- automated Django model generation based on incoming data
- created sets of graphs for data visualization using D3.is

## SELECTED PROJECTS

All project source code available on GitHub (@kevintpeng)

- Web Crawler & Scraper: Ruby tool that recursively searches web pages, extracts data with regex
- Paxos Video: Javascript app aimed to achieve multi-client video synchronization using web RTC and an implementation of Paxos algorithm; for exploration of consensus protocols
- Site Builder: uses git hooks to pre-compile static HTML from content defined using YAML, markdown, and embedded ruby
- Rubik's Cube Solver: Java app that solves in 98 quarter turns on average
- Dataless: Integration of Yelp, Google Maps and Twilio, to enable navigation without wifi/data
- Learn Something Everyday: Daily notes on topics in CS & Math to expand breadth of knowledge

### SELECTED DISTINCTIONS

- Canada-wide Science Fair Silver Medal and Best in Category of Information
- 3x Gold Medalist & 2x Best in Category at the Waterloo Science and Engineering Fair
- Eastern Canada Student Energy Conference Innovation Award
- Neighborhood Community Volunteer Scholarship
- Waterloo President's Scholarship of Distinction (+95% High School Average)
- 1st Place at Waterloo Region Robotics Engineering Competition

## SUMMARY OF SKILLS

- Ruby, Go, Java, Python, Javascript, C, C++, Bash, HTML, CSS
- NGINX, Chef, Ruby on Rails, SQL, Unix, Git, Mocha, AWS, Wireshark, TCP/IP