Kevin Peng

Bachelor of Software Engineering
University of Waterloo (2015−2020)

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EXPERIENCE

Bloomberg · Software Engineering Intern   Manhattan, New York · Aug−Dec 2017

- Deployed Cassandra and Spark on Kubernetes enabling several teams to more easily scale database clusters as a part of the internal database-as-a-service system
- **Reduced up to 55%** of CPU and RAM requirements **without performance loss** by leveraging Kubernetes to share idle resources and by co-locating processes to reduce network latency
- Automated deployment of Kubernetes clusters integrated into the Bloomberg ecosystem

Apple · Data Engineering Intern   Cupertino, California · Jan−Apr 2017

- Enabled a 30% increase in automatic data processing, which resulted in **$200,000/year** in savings, by building a data entry interface for product reliability testing in overseas factories
- Improved **data processing speed by 50%** by rearchitecting the ETL pipeline to use Spark

Shopify · Production Engineering Intern   Ottawa, Ontario · May−Aug 2016

- Mitigated the impact of upstream dependency outages by proposing and developing a reverse proxy using NGINX to cache dependencies
- Built several features for the developer automation tool to improve development workflow

Velocity Garage · Software Developer Intern   Waterloo, Ontario · June−Aug 2014

- Created a data processing tool using Python to sanitize **millions of rows** of oil pipeline data

SELECTED PROJECTS

petrorecruit.ca · Co-founder   Calgary, Alberta · 2015−2016

- Led a small team of developers to build a web app for scraping and classifying job postings
- Built a generalized crawling tool to extract web page data and generate SQL records
- **Raised $40,000** in an initial funding round and published over **3,000 job postings**

Compiler · Coursework   Waterloo, Ontario · Sep−Dec 2016

- Compiles a subset of Scala into MIPS machine instructions, featuring closures and type checking

SELECTED DISTINCTIONS

- **Volunteering:** Waterloo Neighborhood Community Volunteer Scholarship
- **Entrepreneurial:** Eastern Canada Student Energy Conference Innovation Award
- **Engineering:** Canada-wide Science Fair Silver Medal & Best in Category of Information
- **Mathematics:** Canadian Computing Competition Certificate of Distinction

SELECTED SKILLS

Development:		Infrastructure:	
C++ · Ruby	Ruby on Rails	Kubernetes · Docker	NGINX · Cassandra
JavaScript · Scala	Ember.js	Ansible · Chef · Spark	PostgreSQL · Tableau
	HTML · CSS		Elasticsearch · AWS