

# RAMANDEEP FARMAHA

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4<sup>th</sup> Year Systems Design Engineering Student

## SKILLS

<b>Programming</b>	Java, Python, C++, Matlab
<b>Web Development</b>	Javascript, HTML5, CSS3, AngularJS, Handlebars
<b>Backend</b>	Spring, JDBC, AWS (Kinesis, S3, DynamoDB, SQS, Lambda, EC2, Aurora) Heroku, Tomcat, Flask, ActiveMQ, Spark
<b>Data Science</b>	NLTK, scikit-learn
<b>Databases</b>	Cassandra, MySQL, SQLite
<b>Development</b>	Git, Bash, Jenkins, Vim

## EXPERIENCE

- Sep 2016 – Dec 2016 **Software Engineer** – [Veeva Systems](#)
- Architected and built a high-throughput event publishing system that streams serialized event data from local servers to AWS using Kinesis
  - Developed and added new features to Java-based SQL parser
  - Built and migrated user services from existing Rackspace solution to AWS
- Jan 2016 – May 2016 **Software Engineer** – [Kik Interactive Inc.](#)
- Built an open-source Java implementation of Blockhash image algorithm
  - Developed and built pipelines for user data scrubbing and aggregation using AWS CloudFormation and Elastic Beanstalk
- May 2015 – Aug 2015 **Software Engineer** – [Seeq Corporation](#)
- Constructed multithreaded performance testing framework for Seeq's custom Java Cassandra drivers
  - Automated Seeq application and Cassandra cluster deployment on AWS
- Sep 2014 – Dec 2014 **Web Developer** – [Raymond James Ltd.](#)
- Created financial calculators using AngularJS and Bootstrap
  - Developed JSON-based document database tool with AngularJS

## PROJECTS

- Wikipedia Summarizr** Flask web app that uses NLP to automatically summarize Wikipedia entries
- Mus.IQ** Song-guessing game Kik bot; pulls from Spotify API, built using Flask
- Midnight Sun Solar Car** Business Lead – Internationally compete in the World Solar Challenge and American Solar Challenge

## EDUCATION

- Sep 2013 – May 2018 **B.A.Sc in Systems Design Engineering** - University of Waterloo – 3.8 GPA
- Relevant Courses: Machine Intelligence, Pattern Recognition, Data Structures and Algorithms
- Summer 2015 **Scalable Machine Learning** - University of California, Berkeley edX – A grade

## INTERESTS

Hip-hop head, basketball and fitness junkie, film geek, and avid reader