# **RAMANDEEP** FARMAHA

2B Systems Design Engineering Student

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### SKILLS

Programming Languages:

Java, Python, C++, Javascript, Bash/Batch, HTML, CSS Cassandra, Apache Spark, Amazon Web Services, JUnit, Git

Tools:

## **EXPERIENCE**

#### Software Engineer Intern

May 2015 – August 2015

#### **Seeq Corporation**

Seattle, WA

- Develop bulk and multithreaded read/write performance tests for Seeq's custom Java Cassandra drivers
- Automate Seeg and multi-node Cassandra cluster deployment on AWS
- Upgrade backend logging implementation from log4j to logback
- Conduct bug fixes in the java codebase

Junior Web Developer (Co-op)

September 2014 – December 2014

#### Raymond James Ltd.

Toronto, ON

- Create web-based financial calculators using AngularJS and Bootstrap
- Design and implement JSON-based document databases with AngularJS frontends
- Design, build, maintain internal and external websites
- Develop web-based tools using PHP

Project Coordinator (Co-op)

January 2014 - April 2014

#### **Manulife Financial**

Toronto, ON

- Develop, improve user experience design, and provide major launch of internal websites and wikis using HTML and CSS
- Develop User Application Test Cases for major IT software implementation
- Assist portfolio management by developing automated Excel based monthly reporting
- Develop key project management documentation
- Assist on Shared Service/Centre of Expertise Playbook development

# **EXTRA-CURRICULAR ACTIVITIES**

Midnight Sun Solar Car Race Team

January 2015 - Present

### Business Manager

#### **University of Waterloo**

- Manage and raise funds for the \$250,000 solar car project
- Streamline operations and procedures within the team using cloud-based apps
- Plan and coordinate tour across major cities in Southern Ontario
- Use CRM tools to develop sponsorships and supervise co-op students
- Represent the solar car team during exhibitions and other events

#### **Engineering Society Representative**

September 2013 - August 2014

#### **University of Waterloo**

- · Attend biweekly meetings to discuss issues and event planning
- Vote on issues relating to Waterloo engineering students

### RELEVANT PROJECTS

#### **NBA Prediction Engine**

August 2015 - Present

- Utilize the NBA stats API to retrieve player data
- Attempt to build machine learning algorithms that predict player score rate based on key factors such as player performance, court position and defense

#### GreenLeaf Design Project

September 2013 - December 2013

#### **SYDE 161**

- Provide a solution for small-scale urban gardening application
- Develop user requirements, QFD analysis, hierarchal task analysis
- Conduct cost/benefit analysis of different solutions via LFP and HFP rapid prototyping
- Design virtual prototype of product using Solidworks
- · Conduct usability and functional testing
- Create product using 3D printed parts and fibre glass

### **EDUCATION**

#### Candidate for Bachelor of Applied Science

September 2013 - Present

#### **Systems Design Engineering**

University of Waterloo

• 3.9 GPA

#### CS190.1x Scalable Machine Learning

July 2015 - August 2015

#### University of California, Berkeley edX

- Conduct labs on Machine Learning concepts such as regression, principle component analysis (PCA) and gradient descent using Apache Spark and Python
- Finish course with an A grade

#### International Baccalaureate Diploma

September 2009 - May 2013

#### **Glenforest Secondary School**

- Graduated with highest percentage marks in Physics and Chemistry (99%)
- 96 percent graduating average

### **ACHIEVEMENTS**

### President's Scholarship of Distinction

September 2013

#### **University of Waterloo**

Awarded to high school students entering university with a 95% or higher average