Matthew **Kim**

3A · Computer Engineering

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Skills

Languages	Java, Groovy, C++, C, JavaScript, HTML, CSS, JSON, XML, Drools
Tools/Concepts	Agile, Git, Bitbucket, OOP, MVC, REST API, SQL, Spring, IntelliJ, Eclipse, ElasticSearch, JUnit, Spock

Experience

Software Developer
Toronto, ON
UXP Systems, an Amdocs Company
Jan. 2018 - Apr. 2018

- Independently designed and developed Java / Groovy classes on the enterprise platform using Spring and IntelliJ IDEA.
- Strong understanding of JSON and XML through Spring integration to create REST APIs. Worked with JavaScript within Postman.
- Expertise in the JUnit and Spock framework which were used for integration testing. Concept of Behaviour Driven Development was used.
- Tasked with updating Liquibase scripts in Oracle and MariaDB databases. Small work with Bash to implement test scripts.
- Frequent use of Git and Bitbucket to manage version control / migration of multiple projects. Strong familiarity with the Agile environment.

Java Developer
Mississauga, ON
PointClickCare
May 2017 - Aug. 2017

- Successfully wrapped a Drools Rule Engine into a Spring Boot REST API web service with over 200 rules and a sample client API.
- Incorporated basic HTTP authentication and support for both JSON and XML input/output using Spring annotations.
- Used JMeter and VisualVM for load testing, ensuring CPU usage was under 5% and controlling garbage collection at 100 requests/sec.
- Expertise in using the ELK Stack (ElasticSearch, LogStash, Kibana) for log analysis, graphs, and dashboards.

Automation Engineer
Mississauga, ON
PointClickCare
Jan. - Apr. 2016 & Sep. - Dec. 2016

- Effectively made use of the Page Object and Page Test Design Pattern to improve overall code quality, extensibility, and structure in Spring.
- Proficient use of HTML, CSS, and Xpath to repair front-end locator issues, fixing over 50 bugs within the application.
- Independently automated End-to-End test cases to reduce manual regression tasks on QAs, while achieving 99.9% code coverage on a complex team project. Taught full-time QAs with no prior coding experience the concept of Java and automation.

Website Developer
Toronto, ON
Spot Cinema Inc.
Jul. 2014 - Aug. 2014

- Successfully optimized company website up to 50% by combining sprites, browser caching, and defer parsing.
- Increased the Search Engine Optimization by defining key words and adding proper page URLs, resulting in 1st page Google appearances.

Projects

FIRST & Ontario Skills Robotics Team
Lead Member
Sep. 2013 - Jun. 2015

2015	**1st Place**, Built an Arduino robot that retrieves miscellaneous objects and places them on a tall pyramid.	*Waterloo, ON*
2014	**Finalist**, Built an Arduino robot that traces a black line and retrieves a pale. Tested for speed & accuracy.	*Mississauga, ON*
2013	**Finalist**, Built an Arduino and C++ robot that accurately shoots Frisbee discs using jaguars.	*Waterloo, ON*

Science Olympics Team, Engineering
Core Member
Sep. 2013 - May 2015

2014	**1st Place**, Designed a popsicle stick bridge within a given time frame that was purely tested for strength.	*Guelph, ON*
2013	**3rd Place**, Constructed a cardboard catapult to launch items. Emphasis on accuracy, design, and power.	*Guelph, ON*

Video Game Design Team
Mississauga, ON
Core Member
Sep. 2012 - Jun. 2015

- Effectively used game creation systems such as GameMaker Studio and Construct 2 to design a 2D side-scrolling platform.
- Gained expertise in video game design presentation and project life cycles through alpha, beta, and gold design phases.

Education

University of Waterloo
Waterloo, ON
Candidate for Bachelor of Applied Science, Computer Engineering
Sep. 2015 - PRESENT

- President's Scholarship.