PATRICIA MARUKOT

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EDUCATION

University of Toronto   **MAY 2020**
BA.SC with Honours - Computer Engineering

Achievements		Relevant Coursework
Dean's List	2016 - 2017	Intro to Databases ▫ Algorithms & Data Structures
	2017 - 2018	▫ Computer Systems Programming

TECHNICAL SKILLS

Languages	Java, Java Spring, Hibernate ▫ JavasScript, HTML/CSS, AngularJS, NodeJS, Bootstrap ▫ C/C++ ▫
Databases	MySQL, MSSQL, MongoDB, PostgreSQL
Operating Systems	Windows, MacOS, Linux
Tools	IntelliJ, WebStorm, CLion, Eclipse, Adobe Photoshop

EMPLOYMENT HISTORY

Full-stack Software Developer (PEY)   MAY 2018 - SEPT 2019
Destiny Solutions Inc.   TORONTO, ON
Highlights and Responsibilities:

- Implemented SAML login using Shibboleth server for numerous clients
- Reduced instructor login time from 2-3 minutes to < 2s through SQL query optimizations
- Worked with internationalization (I18N) team to introduce a Spanish language pack
- Worked with a team to implement proctor exam schedule calendar using DHTMLx scheduler
- Analyzed corrupt client data and wrote correction scripts using MSSQL queries to fix data relating to a complex financial system

Tools: Java, Java Hibernate, Spring Framework, Struts Framework, MSSQL, Mercurial

SOFTWARE PROJECTS

Analog Circuit to Signal Flow Graph Visualizer   MAY 2019 - PRESENT

- Lead a team of 4 to design a RESTful single page web application that generates a transfer function and signal flow graph of a user input circuit
- Implemented Mason's Gain Formula calculation to compute transfer function using modified depth first search algorithm
- Implemented UI for circuit visualization using SVG elements
- Implemented UI for node-edge graph visualization using Cytoscape.js library

Tools: Javascript ES6, Node JS, HTML, CSS, Git

Algebraic Math Library   DEC 2019

- A math library for parsing, storing, and manipulating algebraic equations in both the real and complex domains
- Implemented tokenization and Shunting Yard algorithms for algebraic string parsing
- Created API to support algebraic operations including addition, subtraction, multiplication, division, and exponentiation

Tools: Node JS