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 ▫ TypeScript, JavasScript, HTML/CSS, AngularJS, NodeJS, Express.js, ReactJS, Bootstrap ▫ C/C++

AWS: ElasticSearch, Cognito, S3, DynamoDB, API Gateway, Lambda, CloudFormation

Databases: MySQL, MSSQL, MongoDB, PostgreSQL, Amazon DynamoDB

Systems: Windows, MacOS, Linux

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 ~3 minutes to < 2s through SQL query optimizations
- Worked with a team to implement proctor exam schedule calendar using DHTMLx scheduler
- Analyzed corrupt client data and wrote MSSQL correction scripts to fix data relating to a complex financial system

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

Principal Cloud Engineer   JUNE 2020
PENDA Productions Inc.   TORONTO, ON

Highlights and Responsibilities:

- Designed the backend infrastructure for a video/image storage library that supports user management and resource transcoding, upload, download, rating, and search.
- Implemented user creation/sign-in flow using Amazon Cognito service
- Managed user, company, and resource data using DynamoDB and ElasticSearch
- Coded NodeJS ElasticSearch queries for searching and accessing resource data. Used a mixture of Boolean and Full-text queries for the search feature and painless scripts for complex updates
- Implemented RESTful API endpoints in Node.js for data storage, retrieval, and updates using API Gateway and Lambda functions

Tools: Node.js, ElasticSearch, Cognito, S3, DynamoDB, API Gateway, Lambda, CloudFormation

PROJECTS

Analog Circuit to Signal Flow Graph Visualizer   MAY 2019 - APR 2020

- 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, Express.js, HTML, CSS, Git