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## Skills

- **Web Development** / Spring, AngularJS, NodeJS, JS (ES6), React, SQL, HTML5, CSS3
- **Programming** / Java, JavaScript, C++, Python, C, Matlab, Git
- **Data Science** / Analysis using NumPy, Pandas, Statistical methods
- **Mobile Development** / Android Game Development using Android Studio
- **Product Management** / Strategic Planning, SDLC, UI/UX design, Agile/Scrum

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## Experience

Jan - Apr 2019 **Full-Stack Developer**, *HubHead*.

- Developed the fullstack implementation of a duplicate workflow detection service for a cloud based multi-user application using **Spring**, **AngularJS**, and **PostgreSQL**
- Added client-side and server-side data validations for an Asset Management web service using **MVEL** and **SQL**, complying with enterprise-level data standards
- Optimized user accounts workflow data structure to display crucial client data and populate internal **Bonita BPM** application for user account administration, adopted throughout the organization
- Designed a SQL optimization job using Obsidian Job Scheduler, periodically removing unused database entries and **reducing process list load times by 20%**

Jan - Apr 2017 **DevOps Engineer**, *Toronto Water*.

- Automated the generation of Asset data analytics using **Python** for data preprocessing and analysis, **shortened asset report generation process by 80%**
- Architected a network design including **IP addressing** and **security architecture** to provide network access to Power Distribution Units located in the company's datacenter
- Collaborated with the native application team to present a desktop virtualization system, successfully transitioning all Toronto-wide plants to the new system technology

Apr - Aug 2018 **Wireless LAN Engineer**, *Extreme Networks*.

- Automated REST API regression testing by creating Postman workflows to generate requests and JavaScript Assertions to perform validations, **shortened verification process by 60%**
- Managed the verification process for all user profile API endpoints using **Testlink**, meeting Corporate-level API standards

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## Projects

- **Javalon - Spring Web Service Board Game**
  - Developed a real-time web service interpretation of the card-based board game "The Resistance: Avalon"
  - Designed the fullstack application implementation featuring user authentication, game-rooms, and real-time game synchronization across devices using **WebSockets**, **Spring**, **AngularJS**, and **H2**
- **Worldly Goods - NodeJS Web Service**
  - Developed a web application for recording and analyzing user monetary transactions to determine net worth
  - Built the front-end infrastructure using **React** and integrated connections to the **MongoDB** database and **NodeJS** back-end using **Express**, and **Axios**
- **Prophit- Python Machine Learning**
  - Developed a **Python** script to perform time series forecasting for predicting future stock prices
  - Incorporated Machine Learning techniques including Moving Average, Linear Regression, ARIMA, and LSTM

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## Education

2016-2021 **Candidate for B.A.Sc in Computer Engineering**, *University of Waterloo*, 3A Term.