

# Aaron Persaud

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## SKILLS

### PROGRAMMING

Experience:

Python • JavaScript • C/C++ • Bash

Tools/Frameworks:

Git • Linux/Unix • AngularJS • Node.js  
jQuery • MongoDB • Django • Docker  
MySQL • Bootstrap • AWS

## CONTACT

Github: [AaronPersaud](#)  
LinkedIn: [aaronpersaud](#)

## EDUCATION

### UNIVERSITY OF WATERLOO

BACHELOR OF MATHEMATICS

Minor: Computer Science

Expected April 2018 | Waterloo, ON

## RELEVANT COURSES

Data Types and Structures  
Networks and Distributed Systems  
Object-Oriented Software Development  
Numerical Computation  
Applied Cryptography

## INTERESTS

### CS INTERESTS

Cryptography  
Algorithms  
Graph Theory  
Machine Learning

### OTHER INTERESTS

Table Tennis  
Weightlifting  
NBA  
Batman  
Data Science Club

## EXPERIENCE

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2017 - July 2017 | Seattle, WA

- Created a **Python** script that consumes customer API call logs from the Elastic Load Balancer API and indexes them by user ID and stores them in **S3**
- Wrote a web service in **Java** that queries the S3 Bucket given a User's Account ID and a time range, which in turn displays the user's call patterns and how many of their calls were **throttled**

### MAPPEDIN INC. | SOFTWARE DEVELOPER

January 2017 - April 2017 | Kitchener, ON

- Worked on the Content Management System for the MappedIn Platform
- Used technologies such as **React.js**, **Redux**, Leaflet, three.js and lodash
- Participated in code reviews to ensure code was clean and efficient

### ACERTA | WEB DEVELOPER

May 2016 - August 2016 | Waterloo, ON

- Developed a dashboard in **AngularJS** that monitors cars during their manufacturing process and performance on the road
- Created elegant charts using charting frameworks such as **D3.js**, **C3.js** and **MetricsGraphics.js**
- Ported multiple components of the dashboard to **TypeScript**
- Wrote scripts to aid in the installation of the company's **Docker** containers
- Modified the design of the company's website

### UNIVERSITY OF WATERLOO | PYTHON/DJANGO DEVELOPER

September 2015 - December 2015 | Waterloo, ON

- Implemented form template creation in **Django** with the ability for users to customize the templates with **HTML**
- Form goes through multiple workflows controlled by different groups and has the ability to return to previous stages
- Backend implemented in Django and frontend in HTML/CSS, **Bootstrap**, **JavaScript**, **jQuery** and **AJAX**
- Forms can be modified, saved, deleted and are also **CSV exportable**

## PROJECTS

### ROBOTUTOR | WEB APPLICATION

<https://github.com/AaronPersaud/RoboTutor>

- Web study tool that helps students memorize questions/answers categorized by topic
- Uses a forgetting curve algorithm and questions are asked in time to optimize information retention
- Built using Node.js, AngularJS, MySQL and Python

### PICME | MOBILE APPLICATION

<https://github.com/Abdulwahaab710/picme>

- Platform for hosting competitions where photos are placed head-to-head and everyone votes for a winner
- Randomized retrieval of two submissions at a time allows for unbiased voting
- Backend is written in Node.js with a MongoDB server and React Native for the client side to appeal to both iOS and Android users