

# Wahab Ahmad

COMPUTER ENGINEER | TERM 3A

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## Education

### University of Waterloo

B.S. IN COMPUTER ENGINEERING

- Cumulative GPA of 3.7

Waterloo, Canada

Sep. 2018 - Aug. 2023

## Skills

**Languages** C/C++, Python, Java, Javascript, SQL, HTML/CSS

**Frameworks** AngularJS, NodeJS, ReactJS, Spring Boot, Tensorflow

## Experience

### SS&C Technologies

FULL STACK DEVELOPER

Remote

Jan. - Apr. 2021

- Developed a web application with MVC Architecture using Spring Boot backend and AngularJS frontend
- Lead the development of a reactive and data-driven UI by leveraging RxJS Operators to generate and subscribe to live observable data streams
- Designed and implemented SQL tables and connected them to the backend using Hibernate

### PointClickCare

SOFTWARE ENGINEER

Remote

May. - Aug. 2020

- Built a Java web application using JSP and configured Spring Data JPA to fetch data in conjunction with Spring Boot backend
- Modified legacy C++ code with declarative multithreading using OpenMP to reduce backend runtime costs by 70%
- Developed debug tooling using React and Go to allow developers to filter through error logs according to certain criteria

### Praemo

JUNIOR DATA SCIENTIST

Downtown Kitchener, ON

Sept. - Dec. 2019

- Wrote data preprocessing code to detect anomalous cycles in manufacturing machines using maximum likelihood estimation in python
- Performed supervised clustering and classification using k-means and k-nearest neighbor algorithms
- Built Kubernetes controllers with caching to concurrently manage custom datastore resources such Redis data streams

### Mentr.ai

JUNIOR DATA SCIENTIST (FREELANCE)

Downtown Toronto, ON

Mar. - Apr. 2019

- Wrote a Python scraper and scraped 23,000 online course links and course descriptions using Selenium and Google Search API
- Implemented a Word2Vec NLP model using Tensorflow to rank order courses according to a search query and relevance for an IOS app

### GrowthGenius

SOFTWARE DEVELOPER (FREELANCE)

Downtown Toronto, ON

Jan. - Mar. 2019

- Wrote a Google Sheets add-on to automate repetitive google sheet tasks, saving the company \$X0,000/year on tedious chores
- Built a python web scraper and scraped 100,000+ user profiles and stored the data in mongoDB

## Extracurricular

### Watonomous

SOFTWARE DEVELOPER / CORE MEMBER

Waterloo, ON

Jan. - Apr. 2020

- Worked with a team of engineers to build University of Waterloo's first self-driving car, focusing on the cars navigation system
- Wrote a C++ parser and serializer to convert HERE Map to OSM map, retaining crucial details, for a more lightweight navigation system

## Projects

### Task Manager

[github.com/w28ahmad/Task-API](https://github.com/w28ahmad/Task-API)

JAVASCRIPT, NODEJS, EXPRESSJS, MONGODB

- Implemented a RESTful API with secured endpoints using nodeJS and expressJS for managing and prioritizing daily tasks
- Integrated JSON web tokens for authentication and bcrypt hashing algorithm for securing the login information
- Enriched the user experience by adding email notifications and a file upload system

## Social Network

[github.com/w28ahmad/SN](https://github.com/w28ahmad/SN)

C++

- Investigated popular graph theory concepts through analyzing trust relationships within a social network
- Identified mutual friends through the use of Warshall's Algorithm to find transitive relationships
- Identified social circles through the use of Kruskal's Algorithm to find the minimum spanning tree

## Trading Dashboard

[github.com/w28ahmad/Dashboard](https://github.com/w28ahmad/Dashboard)

PYTHON, FLASK, TENSORFLOW, PLOTLY

- Built a multivariate LSTM neural network to predict stock prices a week into the future with 70% accuracy
- Performed real-time sentiment analysis on tweets for a given stock

## FaceGen

[github.com/w28ahmad/FaceGen](https://github.com/w28ahmad/FaceGen)

PYTHON, TENSORFLOW, OPENCV

- Programmed and trained a generative adversarial network using 5000 training images to generate both grayscale and colored faces

## Awards

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- 2019 **Winner**, CodeSurf, Vortex NITT
- 2019 **3rd Place**, Cisco DevNet Hackathon
- 2018 **8th Place**, VEX Robotics Regional Competition