


Adham Zaki

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Education:

University of Toronto — BAS Industrial Engineering

2015 - 2020

- PEY Co-op Program
- Dean's Honour List
- Minor in Artificial Intelligence

Skills:

Python

JavaScript

Java

HTML

CSS

Node

React

Git

SQL

Firebase

PyTorch

MATLAB

TensorFlow

Experience:

Cancer Care Ontario — Full Stack Developer

Aug/19 - Apr/20 Toronto, ON

- Developed a full-stack web application to create, share and receive feedback on medical forms in line with **Synoptic Reporting** standards; **reducing total development time** of a new form from **12 to 6 months**
- Replaced tedious data collection and aggregation steps (emailing Excel/Word files back and forth) with online feedback forms powered by a Firebase backend; **saving 20 hours per week of manual work**

Procter & Gamble — Software Engineer

Oct/18 - May/19 Toronto, ON

- Built an end-to-end development pipeline in Java that automatically detected software changes and published to server; **reducing deployment time by 98%**
- Developed new plugins in Java for an open-source analytics software (**KNIME**) that leveraged Google and Facebook APIs to automate recurring tasks; **saving on average 150 hours per week** (30 users) and **reducing human error rate by 20%**

Procter & Gamble — Web & Search Analyst

May/18 - Oct/18 Toronto, ON

- Analyzed web traffic data in Google Analytics to assess performance of marketing strategies and suggest improvements; eliminating low-value advertising channels and **increasing advertisement interaction by 15%**
- Automated web page performance audits using JavaScript and collaborated with brand teams to implement recommendations; **increasing overall website traffic by 20%** and **improving Google Search rankings by ~2**

Projects:

SmartyPants — JavaScript/Java/SQL

- Created a full-stack movie recommender system using JavaScript/HTML/CSS for the frontend and Java Server Pages (JSP) + JDBC/SQL for the backend
- Users begin by rating a few movies, then a predictive algorithm extracts key features and patterns to generate movie recommendations

eSports Betting — Python

- Developed a machine learning model in Python to predict the outcome of professional Counter-Strike games with 62% accuracy on unseen games
- Created an open-source betting assistant that combines the model prediction with current commercial betting odds to suggest the recommended bet

The Federalist Papers — MATLAB

- Developed a support vector machine (SVM) in MATLAB that classified authorship of the disputed federalist papers using a non-probabilistic linear classifier
- Implemented two separate algorithms to solve the classification problem with < 0.2% error
- Consolidated and visualized results including algorithm comparison, significant features, and hyperparameter optimization

Leadership / Volunteering:

HiSkule Mentorship

Student-led initiative with the goal to encourage high school students to pursue STEM related careers by providing personal guidance and support

Go North Youth 2019

Hands-on activities, demonstrations and workshops designed to ignite curiosity about STEM; partnered with Google and Actua

Hack the North 2018

Attended Canada's biggest Hackathon as a sponsor representing Procter & Gamble with the goal of engaging students and assisting with recruitment

Saturday Program

Non-profit tutoring and mentorship program that helps high school students from different faculties at the University of Toronto