

Michael Li

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Experience

Full-Stack Developer Intern | BenchMarked Studios

Jun 2020 — Aug 2020

- Created a dynamic pdf template for invoice creations with the Django framework using HTML/CSS
- Automated the sendings of custom made HTML emails using Auth0 and the SendGrid API
- Developed endpoints to support and serialize various CRUD operations

Technologies used: Python, Django REST, Git, HTML, CSS, React

Vice President | BOSS Computer Science Club

Sept 2018 — Present

- Represented Bur Oak S.S. and placed top 40 individually out of 120 participants at ECOO in 2020
- Competed at ECOO, a high school computer contest, in 2019
- Taught algorithms & data structures at biweekly club meetings to ~60 students and provided individual programming support

Technologies used: Java, Git

Projects

Digit Recognizer

An Artificial Neural Network model capable of recognizing hand-written digits with 97% accuracy

- Developed an ANN model from scratch after understanding and deriving the backpropagation and feedforward methods
- Trained the model with Stochastic Gradient Descent using the Mean Squared Error function resulting in a 97% accuracy after half an hour of training
- Created a GUI using Java's Swing library to visualize the MNIST dataset and verify the accuracy of the model
- Showed my process and visualized the findings on Github using markdown and LaTeX

Technologies used: Java, Git, LaTeX, Markdown

Sigma | Google App Scripts

A script connecting Google applications together and automating tedious tasks

- Created a Spreadsheet Script to assist test creations with a seamless transition from Sheets to Forms
- Supports all of Form's question formats as well as an easy to use interface
- Currently in the process of publishing the script on Google's Marketplace

Technologies used: Google Services and Tools, Google Apps Script, Git

Contests & Achievements

Canadian Computing Competition:

2020 Senior: 27/75 | 2019 Junior: 60/75

USA Computing Olympiad:

2020: Silver | 2019: Silver

Google Kickstart 2020

Round D: placed 4255 | Round E: placed 1881 | Round H: placed 1198

Education

Bur Oak S.S. | 2017 — 2021

AP Program

AP Calc AB: 5

Gr. 11 average: 94%

Gr. 10 athlete of the year

Gr. 10 Galois Champion: 33/40

Affiliations et al.

2020 American Mathematics Competition 12: 84.5/150 (90th percentile)

2020 DECA Provincials Qualifier: Principles of Finance (PFN)

2020 Hackathons: StarterHacks | Hacktoberfest | HackTheNorth 2020++

2019 SHAD Alumni: Canadian STEM enrichment program

2019-2020 Certified Swim Instructor: City of Markham

2015-2020 Certified CSIA Ski Instructor: Lakeridge Ski Resort

Skills

Languages

C/C++, Java, Python, HTML, CSS, JS, LaTeX, Markdown

Technologies

Git, Django REST, React, Google App Script