Michael Li

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Experience

Full-Stack Developer Intern | BenchMarked Studios   Jun 2020 — Aug 2020
  - → Created a 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 | Bur Oak S.S. Computer Science Club   Sept 2018 — Present
  - → Represented BOSS and placed top 40 individually out of 120 at ECOO 2020
  - → Taught algorithms & data structures at biweekly club meetings to ~60 students and provided individual programming support for competitive programming questions

Technologies used: Java, Git

Projects

Digit Recognizer
An Artificial Neural Network model capable of recognizing hand-written digits with 97% accuracy
  - → Developed an artificial neural network from scratch after understanding and deriving the feedforward and backpropagation 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

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 from Sheets to Forms
  - → Supports all of Form's question formats as well as an easy to use interface to customize Forms
  - → 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:
  2021 Senior: 54/75 | 2020 Senior: 23/75
USA Computing Olympiad:
  2020: Silver | 2019: Silver
Google Kickstart 2020 | ~10k participants
  Round D: placed 4255 | Round E: placed 1881 | Round H: placed 1198

Education

Bur Oak S.S. | 2017 — 2021
AP Program
  AP Calculus AB: 5
  Gr. 11 average: 94%
  Gr. 10 Galois School Champion: 33/40 (97th percentile)
  Gr. 10 athlete of the year

Affiliations et al.

2020 American Mathematics Competition 12: 84.5/150 (90th percentile)
2020-2021 DECA Provincials: Individual: PFN, Team: HTOR
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