MICHAEL DING

Software Developer

PROFESSIONAL SUMMARY

Self-driven university student with programming experience in Agile-based environments. Detail oriented problem-solver with strong familiarity in building complex applications and an interest in data science discovered through professional certifications and multinational research experience.

CERTIFICATIONS

- IBM Advanced Data Science Specialization (2021)
- Amazon Web Services Cloud Fundamentals Specialization (2020)
- IBM Data Science Professional Certification (2020)

LANUAGES AND TOOLS

Languages: Java SE, Python, SQL, Bash, C, JavaScript, HTML/CSS, Turing

Tools: AWS (EC2, S3, Dynamo, Route 53), Apache Spark, Tensorflow, Jupyter, Keras, OpenCV, Pandas, NumPy, Sklearn, SSH, Git, Postman (API Development), NoSQL, MySQL, Excel, Autodesk API, Firebase API

LEARN MORE ABOUT ME



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Michael Ding



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(647) 580-8018

WORK EXPERIENCE

Machine Learning Research Intern

Mount Sinai Hospital | Toronto, Canada | Jun 2019 - Sep 2019

- Engaged in an international study applying deep learning AI to predict malignity of novel genetic variants
- Developed data-cleansing Python scripts on over 40,000 variants
- Decreased false-negative rate by 20% by feeding novel hospital variants into **ML pipeline** to reduce underfitting

Web Developer Intern

GEBIS Toronto | Toronto, Canada | Jul 2020 - Aug 2020

- Developed low-maintenance dynamic website with blogging and ecommerce functionality using PHP, JavaScript and WordPress
- Fulfilled user-story requirements by designing and integrating custom MySQL schemas with WooCommerce REST API
- Developed in-house email push infrastructure triggered by WooCommerce events and deployed codebase to remote test site hosts through Git repositories and Linux SSH shell

PROJECTS

StitchAR Android Application &

- Engineered a hackathon mobile application that allows users "stitch" together their 2D photos of any object into a 3D model, view it in the AR engine within the app, and share a unique object ID with others
- Built front-end and integrated third-party APIs using Java and Android Studio
- Handled back-end logic using Node.js and Express, storing shareable 3D objects with Firebase
- Developed login functionality with Firebase Auth and set up AR engine with Google AR Core

SIIM-ISIC Computer Vision Competition &



- predict probability of a skin lesion being malignant or benign
- Developed models using Python, Jupyter Notebook, NumPy, Sklearn, Tensorflow, and Keras
- Achieved highest AUC ROC score of 0.90 and used model to build Android camera app classifier

Group Chat Web Application &

- Created a live chat server application with support for multiple concurrent chat rooms and user sessions
- Implemented dynamic front-end UI using HTML, CSS, JavaScript and Bootstrap
- Designed Node.js and Express back-end while using the Socket.io
 API to handle live web sockets

EDUCATION

University of Waterloo

Computer Science and Finance (Bachelor) | Sep 2020 - Apr 2025 GPA: 3.96 (Term Dean's Honour List Candidate)