

YAOWEN MEI

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Work Experience

Conestoga College

Part-time Faculty

Jan 2023 – Now

Kitchner, ON

- Instruct two sections of advanced Responsive Website Design (HTML, CSS) course, providing students with the knowledge and practical skills to design and develop responsive websites.
- Develop and deliver engaging lesson plans and learning materials that align with the course objectives and meet the diverse learning needs of students.
- Collaborate with faculties to continuously enhance course materials, instruction techniques, and assessment methods.

Google

April 2022 – July 2022

Software Engineer Summer Internship (Java, Kotlin)

Waterloo, ON

- Developed the serialization feature for Firebase Firestore Android SDK with Kotlin serialization library.
- API proposal approved by Android API Council, new feature embedded via runtime dependency injection to void breaking change to the public API surface.
- Optimized Gradle build files and reduced the unit tests' run time by 50% on cloudtop.
- Updated build logic to support build of SDK on Windows.

Amazon Web Services

Jan 2022 – April 2022

Software Development Engineer Winter Internship (TypeScript, Python, Ruby)

Vancouver, BC

- Developed an end to end service to monitor CI/CD pipelines' failure messages for AWS Simple Workflow (SWF) team.
- Packaged infrastructure resources with AWS Cloud Development Kit (Infrastructure as Code).
- Processed raw data with Lambda functions, delivered messages to Slack Webhooks, archived records to S3 buckets.
- Reduced team's monthly pipeline blockages by 25%.

School Projects

UWaterloo Campus Tour App [\(Link\)](#) | Java, Android Studio, Google Firebase

August 2021

- Developed an android map application with the Google Map API and Firebase database for students to share their unique stories related to different buildings on campus.
- Implemented with various software architectural styles, such as repository, pip & filter and implicit invocation style to enhance the scalability and re-usability of the code.
- Applied decorator and strategy design patterns to decrease coupling and increase cohesion between objects.
- Awarded the "best final demo" prize of the Summer 2021 CS646 class at UWaterloo

Mobile Machine Learning App [\(Link\)](#) | Java, Android Studio, Tensorflow Lite

August 2021

- Created a mobile phone app can identify different analytical chemistry equipment with the back camera.
- Trained a Tensorflow Lite machine learning model with 100 pictures for object identification.
- Elected as the best mobile app of the Summer 2021 ENGG6400 class at U of Guelph

Technical Skills

Languages : Java, Python, Kotlin, JavaScript, TypeScript, R, Ruby, SQL, Windows Batch

Libraries: Pandas, Numpy, Matplotlib, Kotlin-Serialization, Tensorflow, Selenium, Boto3, Swing

Tools: AWS, GCP, Git, Builds Control (Maven/Gradle), Android Studio, NodeJS, MySQL, Firebase

Certification: Intermediate Java Programming Certificate from Conestoga College;

Certified Quality Engineer from American Society of Quality;

Certified LabView Associate Developer;

Education

University of Guelph

May. 2021 – Jan. 2023

Master of Engineering in Computer Engineering

Guelph, ON

- **Coursework:** Software Design and Architecture (Java), Mobile Devices App Development (Android Studio), Cloud Computing (AWS), Introduction to Machine Learning (Python), Soft Computing (MatLab)

University of Waterloo

Jul. 2014 – Sept. 2016

Master of Science in Physics

Waterloo, ON

University of Waterloo and Dalian University of Technology (China)

Sept. 2010 – April. 2016

Bachelor of Science in Physics & Bachelor of Engineering in Electronics (Double Degree)

Waterloo, ON