

# YAOWEN MEI

Guelph, ON N1G 0C7

☎ 226-978-2311 ✉ [yimei@uoguelph.ca](mailto:yimei@uoguelph.ca) 🌐 [ywmei.ca](http://ywmei.ca) 🐙 [github.com/y5mei](https://github.com/y5mei)

## Work Experience

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### Google

April 2022 – July 2022

*Software Engineer Summer Internship*

*Waterloo, ON*

- Developing the Serialization feature for Firebase Firestore Android SDK with Kotlin Serialization library.
- Optimized Gradle build files and reduced the unit tests' run time by 50% on clouddtop.
- Updated build logic to support SDK build on Windows
- API proposal reviewed by Android API Council

### Amazon Web Services

Jan 2022 – April 2022

*Software Development Engineer Winter Internship*

*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 the AWS Cloud Development Kit (Infrastructure as Code).
- Processed raw data with Lambda functions, delivered messages to Slack Webhooks, archived records to S3 bucket.
- Reduced the monthly pipeline blockages by 25%.

### Stackpole International Powder Metal Ltd.

April 2019 – May 2021

*Process Quality Specialist*

*Ancaster, ON*

- Wrote Coordinate Measurement Machine (CMM) programs to match the customer's specification.
- Wrote Windows Batch scripts to monitor inspection status and archive inspection results.

## School Projects

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### 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

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**Languages :** Python, Java, Kotlin, NodeJS, R, Ruby, SQL, Windows Batch

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

**Tools:** AWS, Docker, Version Control (Git), Builds Control (Maven/Gradle), Android Studio, MySQL, MongoDB, Firebase

**Certification:** Intermediate Java Programming Certificate from Conestoga College;

Certified Quality Engineer from American Society of Quality;

Certified LabView Associate Developer;

## Education

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### University of Guelph

May. 2021 – May. 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*