

YiMing Han

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Major Awards

Team Muma, Microsoft Imagine Cup 2018 **Canadian Runner-up/ Global Finalist**

Technical Stack: Backend: Python, Flask, NodeJs, Tensorflow, Keras. Frontend: React, Kotlin, Android Studio.

- Worked with a team of 5 to develop a machine learning model that separate human voice from an audio input.
- Designed and built the backend structure for Muma, a service that identifies cover song music using machine learning model and allows music societies to capture more revenue.
- Automated and packaged services into Docker containers and hosted on Microsoft Azure.
- Participated and won the Canadian Runner-up for Microsoft Imagine Cup Canadian Finals 2018, and advanced as a Global Finalist.

Work Experience

Android Developer, Modiface **Jan 2020 - Present**

Technical Stack: Kotlin, Java, C++, Python, OpenGL, OpenCV, Androidx, Firebase, Mockito.

- Working to create the next generation facial recognition and AR rendering applications on the Android Platform.
- Maintaining and updating existing SDKs, working in cross-discipline role by programming both in native C++ and Java/ Kotlin, while building prototypes in multiple platforms such as Android, Windows, and React Native.

Lead Android Developer, Nanoleaf **March 2019 – Dec 2019**

Technical Stack: Kotlin (Coroutines), Realm, Android Studio, Android Jetpack, Androidx, Firebase, Fabric, Mockito, Espresso with MVVM and Dynamic Feature Module.

- Lead and worked closely with the Dev team to develop the Android app for Nanoleaf (100,000+ installs). Rewriting legacy codebase to Kotlin with MVVM and redesigning the whole app architecture structure with Dynamic Feature Modules.
- Worked closely with the entire team to iterate on designs and key components of the app and the product. Contributed to designing internal local network protocols for hardware to app communication.
- Iterated closely with design team to constantly improve UI/UX using tools such as inVision, while keeping design modular and expandable using Material guidelines. Features include Dark Mode, AR, reactive UI with observables, etc.

Senior Android Developer, FOOi Inc Feb 2018 – March 2019

Technical Stack: Python, Django, Kotlin, Android Studio, Android Jetpack, Firebase, Fabric, Mockito, Espresso.

- Lead and worked closely with the Dev team to develop the Android app for FOOi as the lead Android developer, designing the whole app structure and conducted code reviews with fast-paced development cycles under high-stress environment.
- Wrote tests for each iteration and worked closely with the backend team to ensure proper integration of the APIs, generating test-coverage.

DevOps Developer Co-op, Finastra (Formerly D+H) May 2016 – Aug 2017

Technical Stack: C#, NodeJs, Xamarin builds, Octopus Deploy, Visual Studio Team Services, PowerShell, Microsoft Azure, Team Foundation Server, Protractor, Visual Studio, Azure ARM, SQL.

- Worked closely with Dev team to implement cloud environments setup and deployment automation (including disaster recovery) for Barometer application independently.
(<https://www.finastra.com/solutions/lending/commercial-lending>)
- Automated and supported continuous software builds and deployments for 5+ projects during the development phase, including Dev, QA, UAT and Production (Full, Patch builds).

Technical Skills

Languages: Java, Kotlin (Coroutines), Python (Django, Flask), C/C++, C#, JavaScript (NodeJs, React), MySQL

Environments: Linux scripting, Windows PowerShell

Productivity: Android Studio, Mockito Testing Framework, Espresso Testing Framework, Git, Maven, Gradle, Jira

DevOps: Docker, Google App/Compute Engine, Microsoft Azure Cloud, Octopus Deploy, Visual Studio Online, AWS

Education

Honours Bachelor of Computer Science with Distinction

Sept 2013 – May 2018

University of Toronto

Major cGPA: 3.7

Other Experiences

Team Leader, Penguin Rush Development (Sept 2017-2018)

- Led a team of 10 students to develop a student game using Unity3D presented at LevelUp video game Showcase in April 2018.

Public Speaker, D+H ToastMasters

- Completed the Competent Communication (CC) Manual.