

# Hao (Harin) Wu

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## EXPERIENCE

### Hungrii Inc. | Founder / Lead Software Engineer 01/2019 – Present

- Launching monthly features on Tastebuds (2k users), a social dining app, working with a team of nine on weekly sprints.
- Scraping thousands of restaurant's data with Python, saving **100+ hours** of manual data entry.
- Fully transitioned team stack to cross-platform React Native, improving team efficiency **by over 50%**.
- Deployed Tensorflow machine learning model, utilizing matrix factorization, random forests and stacking.

### UBC Launchpad | Lead Software Developer 09/2020 – Present

- Deploying backend on Docker to create a consistent working environment, reducing setup times by **2+ hours**.
- Designing a MySQL database and Node (TypeScript) backend for an iOS fintech app on a software design team.

### TELUS Communications Inc. | Software Developer Co-op 09/2019 – 04/2020

- Assisted with early service outage detection for government and enterprise customers, presenting updates on Tableau reports and automated email notifications to **save thousands of dollars** in service penalties.
- Prototyped a micro-service cloud architecture, with React.js, MongoDB and API services hosted on Google Cloud.
- Transitioned workflow into agile, **saving 10+ hours** in weekly planning, by organizing backlogs, issues, and epics on JIRA.

### ProToGo Technologies Inc. | Mobile DevOps 08/2019 – 12/2019

- Exceeded expectations on weekly sprints with persistent hard work, cutting project time by **30%**.
- Accelerated a construction technology startup by leading Android and backend development.

### Electronic Arts Inc. (Keywords Studios) | Development Support 05/2018 – 08/2019

- Discovered and logged **60+ bugs** from AAA title games (FIFA 19 and FIFA 20) on DevTrack.
- Managed tasks amongst team members on JIRA, Hansoft and Trello, tracking **500+ bugs** and issues.

## PROJECTS

### Hack the North 2020++ | FridgeSpace 01/2021

- **Won** Canada's biggest hackathon with an app for food donations using Swift, Python, CockroachDB and ML.

### nwHacks 2021 | Mentor 01/2021

- Assisted **30+** hackers in 24 hours on various topics like JavaScript, Swift iOS, Kotlin Android, HTML/CSS and GCP/AWS.

### Blinded | iOS Game 12/2020

- Created using ffmpeg and pydub to generate spatial audio, and an algorithm to track head position.

### Amazon DeepRacer | Autonomous Object Avoiding Race Car (Reinforcement Learning) 05/2020 – 12/2020

- **Top 10** in North America at 2020 Amazon reInvent finals, **top 30** amongst thousands of racers in qualifiers.

### Transformers & LSTM for Time Series Forecasting | OHCLV Stock Price Prediction 04/2020

- Created and tuned a neural network with PyTorch and Jupyter notebooks, achieving minor portfolio gain.

### TELUS Hackathon 2020 | TrustID 02/2020

- Created a functional Bluetooth powered access door system using Swift iOS, Postman and Heroku.

## EDUCATION

### University of British Columbia | Computer Science, B.S. 09/2017 – 04/2022

- Core GPA / Full GPA: **3.6 / 3.5**
- Courses in data structures, algorithm designs, systems and machine learning.
- Completed assignments and projects in Java, C/C++, Assembly and TypeScript, achieving high proficiency.

## INTERESTS

- Fluent in English, French and Mandarin. Experience in Spanish and German.
- Team player competing in soccer, golf and ultimate.
- Dedicated to science, technology, innovation and AI, notably in artificial general intelligence.