

# Hao (Harin) Wu

SOFTWARE ENGINEER

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## EDUCATION

**University of British Columbia** | Computer Science, B.S.

Sep 2017 – Dec 2022

VANCOUVER, CANADA

- Core GPA / Full GPA: **3.8 / 3.7**
- Studied courses in data structures, algorithm designs, systems and machine learning.
- Completed assignments and projects in Java, C/C++, Assembly and TypeScript, achieving high proficiency.

## EXPERIENCE

**SAP Canada** | Incoming Agile Developer Intern

Sep 2021 – Present

VANCOUVER, CANADA

**Restaurant Brands International** | Software Engineer Intern

May 2021 – Aug 2021

TORONTO, CANADA (REMOTE)

- Shipped push notification feature for delivery updates, to be used by **50 million+ monthly users** across 3 brands.
- Proposed delivery flow improvement with a data-driven approach, processing **7 billion** objects from DynamoDB.
- Developed payment and cart features of a **top 5 charted international** app with React, Sanity, and GraphQL.

**TELUS Communications** | Software Developer Co-op

Sep 2019 – Apr 2020

BURNABY, CANADA

- Detected early service outages for government and enterprise customers by analyzing pings with SQL queries.
- Automated updates on Tableau reports and email notifications to **save thousands of dollars** in service penalties.
- Prototyped a micro-service webapp, with React, MongoDB and API services hosted on Google Cloud.

**Electronic Arts** | Development Support

May 2018 – Aug 2019

BURNABY, CANADA

- Detected 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, tracked **500+ bugs** and issues.

## PROJECTS

**Hungrui Inc.** | Lead Engineer / Founder

Jan 2019 – Present

- Shipping features on Tastebuds (**2k+ users**), a social dining app, directing a team of nine on weekly sprints.
- Collecting restaurant data with Python scraping, saving **100+ hours** of manual entry and serving data on distributed systems using the FastAPI framework.
- Overhauled hybrid recommendation model through docker-compose and **reduced monthly costs by 70%**.

**UBC Launchpad** | Technical Team Lead

Sep 2020 – Present

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

**SDHacks 2021** | Eden (Urban Garden App)

Feb 2021

- Led development of app using Swift, Go, and CockroachDB, **won** California's biggest hackathon.

**Hack the North 2020++** | FridgeSpace (Food Bank Donation App)

Jan 2021

- Collaborated on app using Swift, Python, CockroachDB and ResNet (ML Vision), **won** Canada's biggest hackathon.

**nwHacks 2021** | Mentor

Jan 2021

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

**Blinded** | iOS Game

Dec 2020

- Produced game (**200+ users**) with ffmpeg and pydub to generate spatial audio, and tracked user head motion.

**Amazon DeepRacer** | Autonomous Object Avoiding Race Car (Reinforcement Learning)

May 2020 – Dec 2020

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

**Transformers & LSTM for Time Series Forecasting** | OHCLV Stock Price Prediction

Apr 2020

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