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 | **Software Developer Co-op**   Sep 2021 – Present
VANCOUVER, CANADA
- Improving CI/CD infrastructure by maintaining existing tests and further automating manual processes.

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 TypeScript, 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

Hungrii 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.