Hao (Harin) Wu

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EXPERIENCE

Restaurant Brands International | **Software Engineer Intern**   05/2021 – Present
- Shipping push notification feature for delivery updates, to be used by **20 million+ monthly users** across 3 brands.
- Product planning for deliveries with data-driven approach, processing **5 billion** rows using Athena and DynamoDB.
- Working with React, Sanity and GraphQL on various features necessary to complete team and brand objectives.

Hungrii Inc. | **Lead Software Engineer / Founder**   01/2019 – Present
- Launching 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 entry and serving data on distributed systems using the FastAPI framework.
- Deployed hybrid recommendation model through docker-compose and **reduced monthly costs by 70%**.

UBC Launchpad | **Lead Software Developer**   09/2020 – 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.

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, MongoDB and API services hosted on Google Cloud.

Electronic Arts Inc. | **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

SDHacks 2021 | **Eden**   02/2021
- **Won** California's biggest hackathon with an app for urban garden engagement using Swift, Go, and CockroachDB.

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 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.

EDUCATION

University of British Columbia | **Computer Science, B.S.**   09/2017 – 04/2022
- Core GPA / Full GPA: **3.8** / **3.7**
- 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.