

Hao (Harin) Wu

SOFTWARE ENGINEER

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EDUCATION

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

Sep 2017 – Apr 2023

VANCOUVER, CANADA

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

EXPERIENCE

Amazon | Software Development Engineer – Datapath Artifacts

May 2023 – Present

VANCOUVER, CANADA

- Improving deployment process on Datapath, a highly available, internal, backend platform used to power Amazon.

Tesla | Software Engineer Intern – Autobidder Platform

Aug 2022 – Dec 2022

PALO ALTO, USA

- Improved database performance by **100%** and **reduced 1TB per month** with time-series Postgres DB transition.
- Increased efficiency with a gRPC energy market event service in Scala, used to replace HTTP server-sent events.
- Built a Python CLI to allow operation teams to send, receive and stream events quickly and cleanly.

Amazon | Software Engineer Intern – Datapath Artifacts

May 2022 – Aug 2022

VANCOUVER, CANADA

- Handled **6 million+ monthly logs** from critical deployment systems into unified logging solution on CloudWatch.
- Reduced AWS Lambda function runtime by **75%**, improving logging latency and saving operational costs.
- Improved all on-call workflow speeds for applicable customer deployment issues by **30 minutes**.

SAP | Software Developer Co-op – Test Infrastructure

Sep 2021 – Apr 2022

VANCOUVER, CANADA

- Securely reduced CDN release time by **80%** with Groovy automation, while hosting various team integrations.
- Decreased failure response time for weekly test automation by **60%** with an alternative bash script.
- Stabilized Jenkins testing pipeline by introducing a daily trigger job and **improved test success rate by 20%**.

Restaurant Brands International | Software Engineer Intern

May 2021 – Aug 2021

TORONTO, CANADA

- 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 **#1 charted international** app with TypeScript, Sanity, and GraphQL.

TELUS Communications | Software Developer Co-op

Sep 2019 – Apr 2020

BURNABY, CANADA

- Detected outages for government and enterprise customers through SQL analysis, **saved \$1,000+** in penalties.

Electronic Arts | Development Support

May 2018 – Aug 2019

BURNABY, CANADA

- Discovered, logged and tracked **600+ bugs** from AAA title games (FIFA 19 and FIFA 20) on DevTrack and JIRA.

PROJECTS

Hungrii Inc. | Lead Engineer / Founder

Jan 2019 – Present

- Shipping features on Tastebuds (**2.5k+ users**) and serving data on distributed systems **reducing costs by 70%**.

UBC Launchpad | Technical Team Lead

Sep 2020 – Apr 2023

- Built a backend video-to-recipe converter, parsing recipe steps and reducing user input time by **50%**.

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.

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.