**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.