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

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

UBC Launchpad | **Technical Team Lead**   Sep 2020 – Present
- 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.