

Hyunuk Lim

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Experience

Software Engineer Intern | *WealthSimple, Toronto, ON, Canada* Jan 2022 – Present

- Working on a project that securely imports data from the warehouse (Amazon Redshift) to Google Sheet.

Software Dev Engineer I Intern | *Amazon, Vancouver, BC, Canada* Aug 2021 – Dec 2021

- Contributing to **OpenTelemetry**, the second most active Cloud Native Computing Foundation (CNCF) open-source project after only Kubernetes as one of the top 15% contributors.
- Created a Helm Chart provides an end-to-end observability stack from **Elastic Kubernetes Service** to **CloudWatch Container Insights** using **AWS Distro for OpenTelemetry Collector** for metrics and **Fluent Bit** for logs.
- Verified the stability for the OpenTelemetry Prometheus Remote-Write Exporter.

Agile Developer Intern | *SAP, Vancouver, BC, Canada* Sep 2019 – Apr 2020

- Built testing environment on **VMs in GCP** and conducted automated regression tests for SAP Cloud for Analytics.
- Monitored test results and investigated root cause analysis for regressions on response time and HTTP requests.
- Enhanced internal testing tools and assets using **Python** to help the team's automated investigation workflows.
- Implemented **Jenkins pipeline** script using **Groovy** and **bash** to help to monitor hundreds of daily commits.

Teaching Assistant | *University of British Columbia, Vancouver, BC, Canada* May 2019 – Jul 2021

- Led labs and office hours to answer questions about topics in **Data Structures and Algorithms** and **Software Construction** courses for **20+ students 10 hours/week**.
- Guided students to successfully complete **Java**, **C++**, and **Python** programming assignments and how to debug.
- Implemented student assignments for the first-year integrated Science course in a team of ten, including four professors using PrairieLearn, an open-source online studying platform.

Projects

Search My Post | github.com/hyunuk/searchMyPost Jul 2021 – Aug 2021

- Building a React web app to search my post on Facebook by keyword using Facebook API.
- Implementing core features to provide simple linear search and full-text search using inverted index in Elasticsearch that is expected to be more than **10 times faster**.

SnackTrack | snacktrack.herokuapp.com Jan 2021 – Apr 2021

- Built a snack purchasing web app that provides transactions and inventory management with a team of 8 people.
- Led backend developers to initialize the workflow, review the code of 100+ pull requests, and refactor the code to keep the code convention.
- Discussed with other leads to make critical decisions in terms of tech stacks, database schema, and API design.
- Implemented APIs to process user, transaction, and payment data between database and frontend, documenting their usage with appropriate error codes.

pik | akhl.me Aug 2020 – Sep 2020

- Built a social media platform that provides a summary based on image analysis via **Google Cloud Vision API**.
- Parsed JSON from Google API to categorize images and implemented backend REST APIs through **NodeJS**.
- Stored images in **AWS S3** and handle authentication using **Google OAuth 2.0**.
- Enhanced image loading by 82% (90 to 16ms) after implementing lazy loading and image resizing.

Tetris: Find the Gem | [bit.ly/ Tetris](https://bit.ly/Tetris) Jan 2020 – Mar 2020

- Built the Tetris game in **Unity** and **C#** with the stage mode where user must clear gems to advance to the next level.
- Implement core features of the modern Tetris series: score, preview the next block, ghost, and hard drop.

Education

Bachelor of Computer Science, University of British Columbia, Year 4 Sep 2018 – Expected Dec 2022

- Achieving a 3.9 GPA on a 4.33 scale.
- Relevant courses:** Data Structures and Algorithms, Software Engineering, Internet Computing, Distributed System.