

Sung Ha Hwang

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EDUCATION

University of Toronto - Toronto, Ontario

2019 - 2023

Bachelor of Science, Computer Science - 4th year

- GPA: 3.98/4.0
- Activities: TA for CSCB58 - Computer Organization; AMACSS Club Academic Representative

WORK EXPERIENCE

Northern Labs

Sep 2022 - Dec 2022

Software Engineer Intern

- Developed backend services for a cryptocurrency payment system using Kubernetes, Github CI/CD, Elixir, SQL, and TypeScript.
- Implemented end-to-end testing and automatic alert systems through Slack webhooks, enabling early detection and rapid resolution of defects to maximize system uptime and stability.
- Authored and streamlined documentation increasing team productivity.
- Led 10+ code reviews weekly, enhancing code quality and reducing bugs.

ICUBE UTM

May 2022 - Aug 2022

Application Developer - Part-time

- Maintained a WordPress e-commerce application for an early-stage startup using PHP in a team of 3 to streamline client's business operations.
- Designed and converted Figma prototypes to fully functional web pages to improve user interaction.

CGI Group Inc.

Sep 2020 - Apr 2021

Java Developer Co-op

- Demonstrated strong problem-solving skills and attention to detail in identifying and resolving complex technical issues, ensuring high levels of system uptime and reliability.
- Enhanced website performance, reducing loading time by 50% via asynchronous data retrieval, positively impacting 10k+ daily users.
- Migrated 1000+ lines of legacy Java code to Spring MVC and MySQL, reducing developmental workload
- Implemented RESTful APIs optimizing data exchange and enhancing overall functionality, resulting in an improvement in frontend-backend communication efficiency.

PROJECTS

Indian Poker | [Github](#)

Aug 2023

- Pioneered a unique online poker variant, utilizing Tensorflow.js to achieve real-time card recognition, creating an engaging user experience for beta testers.
- Deployed the application to AWS, ensuring scalable, secure data management.
- Established CI/CD pipelines using GitHub Actions, ensuring instantaneous, error-free updates, and reducing manual deployment efforts.

Chess Neural Network | [Github](#)

Aug 2021

- Implemented a Tensorflow chess neural network based on AlphaGo Zero paper by Deepmind
- Adjusted network size and pipelined millions of public chess positions leading to 10x training speeds

SKILLS

Languages: Python, JavaScript/HTML/CSS, TypeScript, Java, C, Haskell, Elixir

Tools/Frameworks: React, Spring, Git, Node.js, Firebase, Tensorflow, Unix/Linux, MongoDB, MySQL