

Henry Ye

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TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Java, Rust, Golang, TypeScript, JavaScript, HTML, CSS, SQL, ABAP
- **Frameworks & Libraries:** React, React Native, Next.js, Express, Mongoose, Flask, SQLite, PostgreSQL, MUI, Formik, Yup, Nginx
- **Tools & Platforms:** Docker, Git (GitHub/GitLab), MongoDB, Kubernetes, Postman, AWS, Travis CI, Heroku, RabbitMQ, SAPUI5, SAP HANA, Trello, Figma, Vercel
- **API Development:** RESTful API design and implementation
- **Methodologies:** Agile, Scrum

EDUCATION

- **University of Toronto** Toronto, Ontario
Master of Engineering - Electronic Computing Engineering; GPA: 3.97/4 *Sep 2023 - Dec 2024*
- **Simon Fraser University** Burnaby, British Columbia
Bachelor of Science - Computer Science; GPA: 3.59/4.33 *May 2019 - Dec 2022*

TECHNICAL WORK EXPERIENCE

Software Developer

SAP Full-time Co-op

Shanghai, China

Oct 2021 - Mar 2022

- Spearheaded the rapid development of a modern front-end using **JavaScript**, **SAPUI5**, and **Fiori UI**, successfully replicating the legacy interface within one week.
- Revamped and fine-tuned Core Data Services (**CDS**) views using **ABAP**, significantly boosting backend performance and system scalability.
- Researched the RESTful Application Programming Model (**RAP**) and implemented its unmanaged transaction model, enhancing 'draft' functionality and fostering **Agile-driven** improvements.

TECHNICAL PROJECTS

Full-stack Developer

Rental Property Web Application

University of Toronto

May 2025 - June 2025

- Developed a full-stack rental platform using **Next.js** and **JavaScript**, allowing users to list, search, and manage property listings.
- Implemented secure authentication via Google **OAuth** and route protection using **NextAuth**.
- Designed and integrated property listing **CRUD** functionalities backed by **MongoDB** and **Mongoose**.
- Integrated multi-image uploads with **Cloudinary** and implemented dynamic map views using **Mapbox**.
- Built an internal messaging system with unread notification tracking, property bookmarking, and social sharing features.

Full-stack Developer

Reversi

Simon Fraser University

May 2021 - Sep 2021

- Built user profile interfaces with **TypeScript** and **React**, using **Formik** and **Yup** for form validation and **MUI** for component styling and layout.
- Built the backend using **Flask** and **Python**, implementing the MCTS algorithm and managing data in **SQLite**.
- Enhanced performance through **rabbitMQ** linking a Python RPC client with a **Golang** RPC server.