

Ethan Liu

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EDUCATION

University of Toronto

Major in Computer Science, ASIP Co-op Program, 3.89/4.0 cGPA

Toronto, ON

Sep. 2023 – present

EXPERIENCES

Full Stack Developer

Sep. 2024 – Present

Courseography - University of Toronto

Toronto, ON

- Developed a server-side web application, collaborating closely with a team of 3, ensuring effective communication with each other and the project manager.
- Investigated and resolved SQLite database parsing issues, enabling accurate retrieval of over 5500 missing entries.
- Reduced page load time by 115ms by minimizing bundle sizes and optimizing asset management..
- Fixed image conversion failures caused by outdated dependencies by analyzing SQLite records and updating the codebase to support new dependency versions, restoring full functionality.

TECHNICAL SKILLS

Languages: Python, Javascript, HTML, CSS, Ruby, Java.

Tech Stack: React, Ruby on Rails, PostgreSQL, MongoDB, Webpack, Jest, Rspec.

Tools: Git, Docker, Postman, Figma.

PROJECTS

Quibbly

Oct. 2024 - Present

- Building a full-stack rental platform to improve design, speed, and user experience for student renters.
- Utilized OpenAPI to standardize route management and data schemas for code implementation and scalability.
- Developing a secure and scalable back-end in Ruby on Rails, with a focus on authentication and security using Devise and Devise-jwt, and ensuring reliability through RSpec testing (in progress).
- Implementing front-end solutions with Next.js for higher performances and improved SEO, and Tailwind CSS for efficient and responsive styling (in progress).
- Integrating server infrastructure on Ubuntu and implementing cloud storage solutions using web services such as Amazon S3 for reliable data backup (in progress).

ConnectHub | <https://github.com/csc207group76/connecthub>

Nov. 2024 - Nov. 2024

- Developed a full-stack web application using the MVC design pattern, creating UML diagrams to ensure scalable, testable and maintainable architecture.
- Implemented server-side rendered web pages by integrating a React front-end with a Spring Boot back-end, utilizing RESTful APIs and Webpack for seamless communication and bundling.
- Configured MongoDB Atlas for dynamic, user-centric data schemas, leveraging the provided ORM features and documentation to query data flexibly.
- Containerized the application with Docker using a multi-stage build process, optimizing the image for streamlined deployment and laying the groundwork for future refinements in handling environment configurations.

Automated Instagram Bot | <https://github.com/ethanliu24/Instagram-Bot>

Jun. 2024 - Jun. 2024

- Designed and implemented a Python bot that performs automated tasks.
- Utilized Instagram Graph API with Requests and Schedule Python modules for automation, eliminating most manual effort.
- Built features that calculate the API access expiry date, allowing user to refresh tokens with a single click.

EXTRA-CURRICULAR ACTIVITIES

Awards: Dean's List Scholar 2023-2024, Paul Higgins Musical Excellence Award 2022 - 2023, Ontario Winter Games Bronze 2020, Ontario Provincial Youth Championships Gold, May 2019

Clubs: Member of AYJ Jazz Band, Orchestra, Symphonic Band, UofT High Performance Fencing Club