

Roy Lu

Hon. Bachelor of Science

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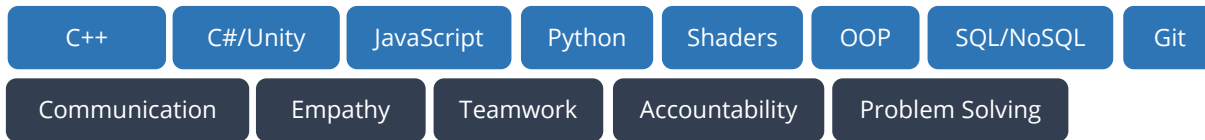
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GitHub: <https://github.com/hylu-dev>

Portfolio: hylu.dev

SKILLS



EXPERIENCE

QA Analyst Intern (16 Months) - Proofpoint / Toronto, ON / 2020-2021

- Perform manual backend Linux server testing for an email security SaaS product
- Spearheaded testing efforts for backend AWS testing
 - Lead meetings and propose testing solutions for incoming features
 - Develop multi-threaded performance testing solution using Python and Linux tooling
- Write programs and scripts to improve test coverage and efficiency
 - Customizable **.NET** tool to send bulk emails, configurable with JSON. Improved testing times by more than double previous methods
 - Web extension to bulk manage virtual machines automated 10-minute hands-on work into a 2-minute single click

EDUCATION

COMPUTER SCIENCE – HONOURS BACHELOR OF SCIENCE

University of Toronto (Mississauga Campus) / 2017 – 2022

Relevant Courses: Software Engineering, Algorithm Design, Database Design, Web Programming

Involvements: Web Developer for multiple student organizations including the *Digital Enterprise Management Association* and *Institute of Communication, Culture, Information, and Technology Council*.

GAME ADVANCED PROGRAMMING – CURRENT

Sheridan College (Trafalgar Campus) / 2023 – 2024

Relevant Courses: Game Architecture, Graphics Programming, Game Engine Fundamentals

PROJECTS

PianoTypes (2023) - SvelteJS/HTML/CSS <https://github.com/hylu-dev/pianotypes>

- Web-based virtual piano with note visualizer and minimal, sleek interface
- Supports multiple instruments with fully customizable controls
- Support real-time midi playback with media controls
- AI music generation using **MagentaJS** to play music in the style of any midi song

Bujots (2022) - ReactJS/ExpressJS/MongoDB/TypeScript <https://github.com/hylu-dev/bujots>

- Web-based jot note app inspired by bullet journaling to create organized online notes
- Notebooks are registered per user and served through **REST API** with token authentication
- State managed through **Redux** to track note and image edits and employ autosaving
- UI built with **TailWindCSS** and **Framer Motion** for responsive layouts and animations