

# HENRY NGUYEN

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View my portfolio: henry-nguyen.ca

## PROFILE

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I am a highly driven software developer with experience developing engaging and scalable applications in Agile Scrum environments. I have developed a diverse range of software solutions including automation tools, data collection, and full stack SaaS web applications used by both business owners and thousands of users. I am currently seeking an opportunity to become a part of a high performing software development team.

## TECHNICAL SKILLS AND CERTIFICATIONS

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**Languages:** Python, Java, JavaScript, TypeScript, HTML/CSS, SQL,  
**Frameworks:** NextJS, ReactJS, NodeJS, Pytest, FastAPI, Spring Boot, Tailwind CSS  
**Databases:** MongoDB, PostgreSQL, Redis  
**Developer Tools:** GitHub, Jira, Confluence, Docker, Postman, Linux, AWS, Google Analytics  
**Libraries:** Selenium, Playwright, PyMongo, Zustand  
**Certifications:** AWS Certified Cloud Practitioner

## SOFTWARE DEVELOPMENT EXPERIENCE

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### Web Developer

May 2024 – Current

Rocky Road Rescue (Volunteer), Ottawa Ontario

- Work with organizers to create a custom website to eventually replace their current web hosting service provider.
- Develop responsive front-end webpages using NextJS/ReactJS, JavaScript, and TailwindCSS.
- Plan system design requirements for future back-end tools which will allow organizers to update information used to manage adoptions, fosters, and volunteer applications.

### Full Stack Developer

November 2023 – Current

Snapcaster (SaaS Co-Creator) Victoria, British Columbia

- Collaborated on a full stack SaaS application that aggregates top deals from over 3.5 million trading cards sold in Canada for over 3000 monthly users using Python, TypeScript, and NextJS/ReactJS.
- Generated thousands of dollars monthly by partnering with e-commerce businesses through advertising, marketplace, and product analytics using MongoDB, PostgreSQL, and Google Analytics.
- Deployed Snapcaster's search engine microservices, REST API development, identified and solved bugs, unit testing, and documentation in an Agile Scrum environment using Jira, Docker, and Pytest.

### Software Developer

November 2022 – December 2022

Real-Time Warehouse Order System (Personal Project), Carleton University

- Developed a C++ Client-Server warehouse system capable of managing atomic transactions for large-scale real-time orders.
- Designed a back-end system that upholds inventory data integrity using threads and mutexes, guaranteeing no overselling occurs.
- Contributed to the task scheduling system that prioritizes threads based on product availability, quantity, and purchase timing.

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### Software Developer

May 2022 – December 2022

Study on Ecommerce Websites and Usable Security (Personal Project), Carleton University

- Explored practical security solutions for managing high-demand, first-come-first-served product launches on Shopify.
- Automated JSON product monitoring, carting, and captcha solving using REST APIs in Python to highlight e-commerce design vulnerabilities.
- Created a responsive GUI with QT and Selenium that creates mass simultaneous Shopify checkout processes using threading.

### Software Developer

January 2022 – April 2022

Quests of The Round Table Web Game (Personal Project), Carleton University

- Coded a Spring Boot web application in Java within a team in an Agile SCRUM environment using tools such as Jira and Confluence.
- Implemented back-end components using creational and behavioral design patterns to initialize and maintain the game state at various stages.
- Designed various GUI elements using the front-end web framework Vaadin.

## OTHER EXPERIENCE

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### Computer Repair Associate

August 2018 – September 2020

Best Buy, Ottawa, Ontario

- Worked with peers to systematically diagnose business software and hardware complications.
- Managed the status of computer part orders and in-store customer repair tickets.
- Presented troubleshooting assistance and tutorials for computers, tablets, and phones to clients with varying levels of technological literacy.

### IT Technician

December 2017 – April 2018

A-Z PC Computer and Laptop Repair, Glendale, Arizona

- Installed computer desktops, monitors, servers, switches, and other networking related hardware for dozens of medical offices, allowing clients to operate workplace practices reliably and securely.
- Configured client's office infrastructure to facilitate connectivity across multiple systems.
- Assembled workstations allowing clients to secure critical information in the event of hardware failure.

## EDUCATION

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### Bachelor of Computer Science (Honours)

September 2019 – February 2023

Carleton University, Ottawa, Ontario

## VOLUNTEER

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### Rocky Road Rescue (Dog Rescue)

May 2023 - Current

Transport Volunteer (Vet Appointments/Supplies), Ottawa, Ontario