HENRY NGUYEN

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View my portfolio: henry-nguyen.ca

PROFILE

I am a highly driven software developer with experience developing engaging and scalable applications in Agile Scrum environments. I thrive when challenged and have developed a diverse range of software solutions from automation tools to full stack applications for thousands of users. I am currently seeking an opportunity to become a part of a high performing software development team.

TECHNICAL SKILLS AND CERTIFICATIONS

Languages: Python, Java, C++, SQL, TypeScript, JavaScript, Bash (Shell Scripting), HTML/CSS
Frameworks: NextJS, ReactJS, FastAPI, JUnit, Spring Boot
Databases: MongoDB, PostgreSQL, Redis
Developer Tools: GitHub, Jira, Docker, Postman, Linux, AWS, EC2, Maven
Libraries: Selenium, Playwright, PyMongo, JDBC
Certifications: AWS Certified Cloud Practitioner

PROFESSIONAL EXPERIENCE

Computer Repair Associate   **August 2018 – September 2020**
Best Buy, Ottawa, Ontario

- Worked with peers to systematically diagnose complex 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 and fine-tuned network client's office infrastructure to facilitate seamless communication and connectivity across multiple systems.
- Assembled workstations allowing clients to secure critical information in the event of hardware failure.

PERSONAL PROJECTS

Developer   **June 2023 – Current**
Snapcaster (snapcaster.ca) Victoria, British Columbia

- Collaborated on a full stack web application that aggregates top deals for collectible trading cards for thousands of free and paid users using Python, TypeScript, and NextJS.
- Automated CRUD operations for over 3 million unique trading cards on the Canadian market using MongoDB and Redis.
- Deployed Snapcaster's advanced search module, API development, testing, and system redesign decisions in an Agile Scrum environment using tools such as Jira, Postman, and Docker.

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Developer   **November 2022 – December 2022**
Real-Time Warehouse Order System, 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 round-robin scheduling system that prioritizes threads based on product availability, quantity, and purchase timing.

Researcher and Developer   **May 2022 – December 2022**
Shopify Checkout Automation Tool - A Study on Scalping Attacks, 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.

Developer   **October 2021 – December 2021**
Bookstore Inventory Management System, Carleton University

- Coded a Java application for an online bookstore, enabling users to browse and purchase from an extensive range of products.
- Implemented a backend solution enabling owners to access financial statistics, inventory management, and the ability to manage book orders.
- Designed a database system utilizing pgAdmin, PostgreSQL, and JDBC to efficiently manage and organize essential data.

EDUCATION

Bachelor of Computer Science (Honours)   **September 2019 – February 2023**
Carleton University, Ottawa, Ontario

VOLUNTEER

Rocky Road Rescue (Dog Rescue)   **May 2023 - Current**
Transport Volunteer (Vet Appointments/Supplies), Ottawa, Ontario