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 environments. I thrive when challenged and have previously developed a diverse range of software solutions from automation tools to full stack web applications. I am currently seeking an opportunity to become a part of the high performing software development team.

TECHNICAL SKILLS AND CERTIFICATIONS

Languages: Java, Python, C++, SQL, JavaScript, TypeScript, HTML/CSS
Frameworks: React, NextJS, Django, Spring Boot, FastAPI, JUnit
Databases: MongoDB, DynamoDB, PostgreSQL/PgAdmin, Redis
Developer Tools: Git, Jira, Docker, AWS, EC2, Lambda, Linux, Maven
Libraries: Selenium, Playwright, JDBC, Pandas, Tailwind CSS, React 3 Fiber
Certifications: AWS Certified Cloud Practitioner, AWS Certified Developer Associate (Candidate)

PROFESSIONAL EXPERIENCE

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

- Worked with peers to systematically diagnose obscure consumer and business software and hardware complications.
- Managed and updated the status computer component orders and in store customer repair tickets.
- Presented computer, tablet, and phone troubleshooting and tutorials for both technology literate and non-literate clients.

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   **March 2023 – Current**
Snap Caster (snapcaster.ca) Victoria, British Columbia

- Collaborated on a full stack web application for thousands of users that aggregates the best prices for collectible trading cards from 30 local game stores in Canada.
- Automated CRUD operations on popular user search queries, trading card sets, and account information in MongoDB/Postgres/Redis.
- Contributed to the agile development of database design, API development, and code debug reviews using React/NextJS, FastAPI, and Python.

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Developer   **November 2022 – December 2022**
Real-Time Warehouse Order System, Carleton University

- Coded a C++ Client Server warehouse system that handles atomic transactions for mass simultaneous real-time orders.
- Designed a back-end system that maintains data integrity of inventory using mutexes, ensuring inventory is never oversold.
- Deployed a unique round robin scheduling thread priority based on product availability, quantity, and time of purchase.

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

- Researched usable security alternatives for high demand first-come-first-served Shopify product releases.
- Automated JSON product monitoring using REST API's, product carting, and captcha solving in Python to showcase E-Commerce design flaws.
- Created a responsive GUI using QT and Selenium that uses threading to simulate numerous automated Shopify checkout tasks.

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

- Coded a Java application for an online bookstore, allowing shoppers to browse and purchase a wide collection of products.
- Designed a separate backend application that allows owners to view financial statistics, inventory, and order/discontinue different books.
- Deployed a database using pgAdmin, PostgreSQL, and JDBC to maintain essential information such as customer, book, sales, and order information.

EDUCATION

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

VOLUNTEER

Rocky Road Rescue (Dog Rescue)   **May 2023 - Current**
Supply Team Volunteer, Ottawa, Ontario