Jason Ngo

Computer Science Major + Software Developer

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I am a computer science major with ongoing experience in software development as a freelancer. During my previous employment and volunteer experiences, I have consistently demonstrated my ability to work well in a team. Additionally, I am excellent with analytical thinking, problem solving, and communication. I am interested in further developing my existing skills as well as learning new technologies.

Skills Summary

Full-stack development

Proficient in the development of front-end and back-end solutions. Experience in creating intuitive and responsive user interfaces. Used a variety of technologies to create dynamic web content.

Desktop development and scripting

Capable of developing programs ranging from simple scripts to larger applications. When possible, I tend to focus on creating well-structured, efficient programs.

Technical writing

Able to use a variety of typesetting programs and word processors to produce detailed technical documentation.

Version control

Ability to effectively use version control tools for managing projects, backups, and remotely collaborating with a team. I make use of and contribute to open source projects through GitHub.

Linux

Years of personal experience using different distributions of Linux. Very familiar with the use of the command line and Bash. Experience in operating a Linux server.

Activities

2019/09 - Present   **CTF Events**
https://ctftime.org/
Wrote scripts to automate interactions with a server to solve challenges under time constraints. Reverse engineered programs through source code or disassembled binaries without symbols. Identified and exploited security vulnerabilities in web applications and disassembled binaries.

2017/09 - 2020/02   **Vex Robotics Club**
Sir Winston Churchill High School, Calgary, AB
Wrote programs which interacted with the Vex API to receive user input and relay instructions to motors. Designed programs for storing and implementing predefined autonomous movements, and wrote scripts to facilitate modification of autonomous program files.

Work Experience

2020/04 - Present	**Freelance Software Developer** Worked individually or in a small team to develop desktop applications and web applications according to client specifications.
2016/06	**Calgary Stampede Work Experience Program** *Boys and Girls Clubs of Calgary, Calgary, AB* Worked in a team of six under supervision to patrol a designated area during the Calgary Stampede event and ensure that the area remained presentable.

Projects

2020/07 - Present	**Hackathons** *https://devpost.com/Green-Avocado* Working collaboratively to create and implement unique ideas for hackathon events.
2020/06 - Present	**Personal Web Server** *https://github.com/Green-Avocado/website.git* Simple webserver running NGINX and NodeJs on an Arch Linux server.
2020/06 - Present	**CTF Writeups** *https://github.com/Green-Avocado/CTF.git* Documentation of attempts at CTF challenges and in-depth explanations of solutions.
2021/03	**Etwahl** *https://github.com/Green-Avocado/Etwahl.git* C++ program for linking MIDI signals to keystrokes on Windows and Linux.
2020/05 - 2020/06	**COVIDPing Image Generator** *https://github.com/Green-Avocado/covidping-image-generation.git* Web application for generating and displaying Twitter cards for COVID-19 statistics in US states.

Education

2020/09 - 2024/04	**Bachelor of Science, Major in Computer Science** *University of British Columbia, Vancouver, BC*
2018/02 - 2020/05	**International Baccalaureate Diploma Programme** *Sir Winston Churchill High School, Calgary, AB*