

Jason Ngo

Computer Science Major @ UBC

+1 587-890-5411 | work@jasonn.dev | github.com/Green-Avocado | www.jasonn.dev

Skills Summary

Application Security	Buffer overflow, Format-string exploits, Return-oriented programming, Reverse engineering
Web Security	SQL injection, Cross-site scripting, Template injection, Local file inclusion, Prototype pollution
Systems development	Rust, x86 Assembly, C / C++, Java
Web development	NodeJS, REST APIs, NGINX, Google Firebase
System administration	Linux, Docker, SQL

Work Experience

2020/04 - Present	Freelance Software Development <ul style="list-style-type: none"> Wrote detailed technical documentation using LaTeX.
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Technical Extracurriculars

2019/09 - Present	CTF Competitions https://blog.jasonn.dev/ctf <ul style="list-style-type: none"> Reverse engineered binaries without symbols using Ghidra and Radare2. Performed dynamic analysis and debugged exploits using GDB. Identified vulnerabilities in binary applications and web services. Used Python to write reproducible exploit scripts. Defeated common exploit mitigations such as position independent executables, address-space layout randomization, stack canaries, and relocation read-only Created writeups to explain vulnerabilities and exploit techniques used in each challenge.
2017/09 - 2020/02	Vex Robotics Club <i>Sir Winston Churchill High School, Calgary, AB</i> <ul style="list-style-type: none"> Wrote programs which interacted with the Vex API to relay instructions. Created interfaces for receiving user input. Designed programs for storing and implementing autonomous routines. Wrote scripts to modify autonomous program files.

Hackathon Projects

2022/01	Language Exchange https://github.com/Green-Avocado/Language-Exchange <ul style="list-style-type: none"> DESCRIPTION.
2021/11	Speak-able https://devpost.com/software/speak-able-inclusive-unconferencing <ul style="list-style-type: none"> DESCRIPTION.
2020/08	Study Tinder https://devpost.com/software/study-tinder <ul style="list-style-type: none"> DESCRIPTION.
2020/08	BikePath https://devpost.com/software/bikepath-dkpstx <ul style="list-style-type: none"> DESCRIPTION.
2020/08	COVID Wait https://devpost.com/software/covid-wait <ul style="list-style-type: none"> DESCRIPTION.

Cybersecurity Projects

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| 2021/03 - Present | pwndocker
https://github.com/Green-Avocado/pwndocker <ul style="list-style-type: none">DESCRIPTION. |
| 2022/02 | BBY Stealer Malware Analysis
https://github.com/Green-Avocado/bbystealer-malware-analysis <ul style="list-style-type: none">DESCRIPTION. |
| 2021/10 - 2022/01 | UBC MapleCTF
https://github.com/ubcctf/maple-ctf-ubc-2022 <ul style="list-style-type: none">DESCRIPTION. |
| 2021/09 - 2021/12 | EasyROP
https://github.com/Green-Avocado/EasyROP <ul style="list-style-type: none">DESCRIPTION. |
| 2021/03 | Etwahl
https://github.com/Green-Avocado/Etwahl <ul style="list-style-type: none">DESCRIPTION. |

Personal Projects

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| 2020/12 - Present | website
https://github.com/Green-Avocado/website <ul style="list-style-type: none">DESCRIPTION. |
| 2021/11 - 2022/01 | atom-ide-rust
https://github.com/rust-lang/atom-ide-rust <ul style="list-style-type: none">Contributed to an open source plugin for integrating rust-analyzer into the Atom text editor.Used NodeJS to read config files, parse JSON data, and interface with a language server.Wrote documentation using markdown to explain the usage of the plugin with examples.The plugin has been downloaded over 164 000 times. |
| 2021/12 | discord-balance-tracker
https://github.com/Green-Avocado/discord-balance-tracker <ul style="list-style-type: none">DESCRIPTION. |

Awards

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| 2022/01 | CyberSci Vancouver Regionals - First Place |
| 2020/03 | Vex EDR Alberta Provincial Tournament - Think Award |
| 2019/04 | U of Calgary Science Engineering and Technology Challenge - First Place |

Education

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| 2020/09 - 2024/04 | Bachelor of Science, Major in Computer Science
<i>University of British Columbia, Vancouver, BC</i> |
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