

# Ethan Sengsavang

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Software Engineering and Computer Science Student @ the University of Calgary

## Skills Summary

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- Development: Docker, C, C++, JavaScript, Python, Java, Git, GitHub, Rust, X86, MIPS
- Web Exploitation: JavaScript Obfuscation, Command Injection, File Inclusion, Cross-Site Scripting
- Binary Exploitation: Buffer Overflows, Shellcode, Ghidra, GDB, Return-Oriented-Programming

## Work Experience

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### Quality Assurance Assistant

ConnectFirst Credit Union: July 2022 - August 2022

- Perform rigorous production testing to determine any undesired behaviour
- Tracked and documented critical issues to communicate with the wider team

### Lead Software Developer

ECSSSEN School: June 2021 - August 2021

- Organized development workflow for a team of front-end and back-end developers
- Deployed APIs and web applications made with NodeJS on platforms including Heroku and GitHub Pages.
- Compiled software requirement documents to aid the development

### Full Stack Software Developer

Popular Start-Up Company: March 2020 - November 2020

- Designed and spearheaded website and web-based applications development with a keen focus on user experience
- Built APIs with Amazon Web Service and JavaScript to construct online, web-based applications
- Synchronized work with other team members to complete tasks in a cooperative and individual environment

## Extracurriculars

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### Vice President of Tech

University of Calgary Information Security Club: October 2020 - Present

- Developed challenges used within a nationwide information security competition
- Created and upheld packaged systems to host a variety of web and terminal servers with Docker
- Constructed and maintained monitoring infrastructure using Docker-Compose and Terraform

### Competitive CyberSecurity Team Leader

University of Calgary's Manzara's Magpies Team: April 2022 - Present

- Organized weekly practices to develop team skills in a variety of information security concepts
- Taught team members approaches and solutions to given cyber security problems in groups and individually
- Guide team members during live cybersecurity competitions

## Competitions

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### International CyberSecurity Challenge

Stavros Niarchos Foundation Cultural Center, Athens, Greece: June 14, 2022 - June 17, 2022

### CyberSecurity Competition - Nationals 2022

Canadian Centre for Cyber Security, Ottawa, Canada: June 24, 2022 - June 26, 2022