

# Zane Crawford

Junior Developer

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## Education

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### Bachelors of Computing Science

University of Alberta | Software Specialization

Expected in 2027

### CompTIA Security+ ce Certification

SY0-701

2025

## Projects

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### Siege Engine

2020-2023

TTRPG Balancing Tool

- Delivered a complete data science and simulation tool for the Cyberpunk 2020 TTRPG.
- Graphed item power visually to inform and support system changes.
- Proved item costs can be reduced to a linear system, supporting correcting changes for 60% of applicable items.

### QR Event Manager

Winter 2024

Software Engineering Group Project

- Contributed to a networked event management Android app.
- Implemented features like geolocation, mapping, and content moderation.
- Coordinated user stories and task prioritization for the team.
- Worked in a SCRUM-style team with 6 students, with weekly sprints.

## Skills

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- **General Programming Languages:** Python, Java, Typescript, C/C++, C#, Bash
- **Web Development:** Raw HTML and CSS, Django, Pelican, Flask
- **Data Analysis Tools:** SQLite, R, NumPy, Matplotlib
- **Other Languages:** Lisp,  $\lambda$ -Calculus, RISC-V, x86
- **Source and Version Control:** Git, Github
- **Linux Environments:** Ubuntu, Debian, Alpine, Kali
- Sandboxing and Virtual Environments
- Performance Evaluation and Optimization
- Functional and Object-Oriented Programming
- Strong Communication and Interpersonal Skills
- Self-Motivated Learning

# Work Experience

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## Code Instructor

Mar 2023 - Present

Code Ninjas Summerside

- Instruct students aged 7-14 in fundamental STEM concepts, including 3D modeling and video game creation using languages like Scratch, JavaScript, Lua, and Unity C#.
- Create a welcoming and productive environment by helping kids engage with programming on their level.
- Manage the classroom environment independently, overseeing student behavior and organization..

## Range Manager

May 2024 - Aug 2024

Edmonton Gun Club (NPO)

- Worked alongside one additional manager to lead daily operations from open to close.
- Managed a team of ~10 employees directly during tournaments, including safety and delegating tasks.
- Oversaw all transactions through POS, generating reports for board members.
- Maintained equipment by troubleshooting and repairing trap machines and electronic pulls where possible, to avoid external repair costs and delays.

## Ski Instructor

Nov 2017 - Mar 2023

Rabbit Hill | Winter Ski Season

- Delivered ski instruction to both children and adults, with highly customized lesson plans to help students improve their individual skill and confidence.
- Mentored and directed apprentice instructors during lessons.
- Maintained good relationships with repeat students, who frequently requested me by name for future lessons based on their positive experiences.