Tynan Guenther

Software Developer / Systems & Data Analyst

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Professional Summary

Computer Science student with a **Computer Systems Technology diploma** and experience in **software development, data analysis, machine learning research, and Linux systems administration**. Strong skills in **C/C++, Python, Java, Perl**, networking, and embedded systems. Proven ability to analyze data, build systems, and communicate technical results clearly.

Technical Skills

Languages: C, C++, Python, Java, Perl, JavaScript, TypeScript
Systems: Linux (Debian, Ubuntu, Arch, OpenSUSE), Windows 10/11
Tools: Git, Vim, Visual Studio, Bash, PowerShell
Networking: WireGuard VPN, SSH, Samba, Wireshark, TCP/IP
Data / ML: Data validation, model evaluation, performance metrics
Embedded: Microcontrollers, Teensy 4.0, audio systems

Projects

Embedded Audio Guestbook (Teensy 4.0)

- Built an audio message recording system using a Teensy 4.0 and audio shield.
- Implemented persistent storage and hardware-level audio handling.

Home Server & Networking Lab (Raspberry Pi)

- Deployed a Linux home server with remote access via WireGuard VPN.
- Configured Samba and SSH for secure file management.

Experience

Data Analyst – Prairie Robotics | Regina, SK
04/2025 – 08/2025

- Performed **data validation and preprocessing** for AI model pipelines.
- Measured and reported **AI model performance metrics**.
- Supported development teams with analytical insights.

Assistant Researcher – Ground Truth
Digital Integration Centre of Excellence (DICE) | Regina, SK
06/2022 – 09/2023

- Developed, trained, and evaluated machine learning models.
- Analyzed datasets and summarized research findings for stakeholders.

Youth Care Worker – Ranch Ehrlo | Regina, SK
01/2024 – 09/2024

- Supported youth aged 10–15 in structured group-home environments.
- Demonstrated leadership, communication, and responsibility.
- Built trust-based relationships and modeled positive life skills.

Education

B.Sc. Computer Science (In Progress) – University of Regina | 2024–Present
Computer Systems Technology Diploma – Saskatchewan Polytechnic | 2020–2022

Leadership & Activities

- Player, Regina Rogues Rugby (Provincial Champions) | 2025–Present
- Player, University of Regina Rams | 2024–2025
- Flag Football Coach | 2020, 2022, 2025