

Roman Lefler

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SUMMARY

Computer Science student focused on Linux and open-source software, with professional software engineering experience, 230,000+ open-source downloads, and research in explainable AI and differential privacy for breast cancer detection.

EDUCATION

St. John's University

Bachelor of Arts in Computer Science

Collegeville, MN

Anticipated May 2028

Minors: Mathematics, Classics (Ancient Mediterranean); **Honors:** Dean's List; **Study Abroad:** Italy (Fall 2026)

Coursework: Operating Systems, Parallelism & Concurrency, Computer Architecture, Data Structures & Algorithms

EXPERIENCE

Undergraduate Researcher, Breast Cancer AI, St. John's University, Collegeville, MN

May 2026 – Present

- Surveyed 38 studies on explainable and privacy-preserving AI for mammography, comparing XAI, federated learning, and differential privacy
- Trained EfficientNetB0, InceptionV3, and MobileNetV2 for malignant classification, improving F1 by 13.5%; applied Grad-CAM, SHAP, and LIME

Software Developer Intern, Elumynt, Stillwater, MN

May 2025 – Aug 2025

- Developed Python/Django services and a React interface for client profiles and AI chat agents, enabling 30+ clients to analyze advertising performance
- Architected and built a TypeScript Microsoft Teams bot, delivering notifications to **20 employees** and AI insights for clients
- Designed and maintained SQLite and PostgreSQL (with Supabase) schemas spanning 20+ tables
- Deployed and integrated 4 Docker services on a remote Linux server over SSH

IT Client Assistant, St. John's University, Collegeville, MN

Aug 2024 – Present

- Automated software deployment to **2,000+ Windows/macOS** devices using PowerShell, Bash, Intune, and Jamf

PROGRAMMING PROJECTS

GNOME OpenWeather Refined

Dec 2023 – Nov 2024

- Maintained and enhanced a GPL-licensed extension for the GNOME Linux desktop environment using JavaScript
- Modernized a **15-year-old** JavaScript codebase as its largest contributor by commit count
- Reached **160,000+ downloads**; top 6% of extensions by downloads
- Managed nearly 100 bug reports and pull requests and supported **35 languages** through community contributions

GNOME SimpleWeather

May 2025 – Present

- Built a TypeScript GNOME Shell extension to replace OpenWeather Refined with a redesigned architecture and UI
- Reached **70,000+ downloads** and support for **25 languages** through community contributions
- Triaged and reviewed 145+ community issues and pull requests covering features, bug fixes, and translations

Additional Projects

- rifle**: C# ASP.NET Core 9 web game with TypeScript frontend and SignalR synchronization May 2025 – Nov 2025
- shove**: C99 custom language compiler with lexer, AST parser, & LLVM codegen Oct 2023 – Dec 2023
- ls++**: C++17 Qt6 file browser with custom icons and vi-style bindings Jun 2025 – Aug 2025

PROGRAMMING AND TECHNOLOGY SKILLS

Languages: C, Java, C#, JavaScript/TypeScript, Bash, Python, HTML, CSS, SQL

Technologies: Linux/POSIX, Win32, Git, Docker, GitHub Actions, CircleCI, Make, CMake, gettext, GTK4, Qt6

PATENTS

Co-inventor: *Apparatus and Method for Braking Mecanum Wheels*, U.S. Patent No. **12,692,914 B2**

Jul 2026

ACTIVITIES / INVOLVEMENT

Volunteer Youth Coding Instructor, Treasurer of Pickleball Club, Computer Science Club, Worship Club Guitarist