

Josef Graf

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Employment History

- **Student Researcher (CRLB-GMEL)** May 2024 - Present
Population Health Research Institute, McMaster University.
 - Optimized pipelines with improvements ranging from 2x, 20x, to even 64x in some cases.
 - Created the [lmutils](#) library for R to enable more efficient high-performance computing on biobank-scale data thanks to the power and flexibility of the Rust programming language.
- **Founder & Software Developer** Apr 2024 - Present
v19 Corporation
 - Developed [Kanri Memberships](#), an all-in-one platform for membership management. Features include attendance tracking, billing, belt tracking, and more. Currently in early alpha.
- **Software Developer (Contract)** July 2024 - Present
Baseline Technologies (Remote)
 - Modernized backend and implemented new backend modules such as an updated permissions system and license management.
 - Created new PDF and email systems with improved performance, flexibility, and styling.
- **Lead Software Developer (Politics & War)** Mar 2022 - June 2024
Yellowstone Digital Media (Remote)
 - Worked to improve and incrementally require legacy PHP codebase with new features such as a WebSocket-based real-time API for a playerbase of more than 6,000.
 - Worked as lead game developer coordinating and managing teams of community volunteers including the Development, API, Game Design, and Quality Assurance teams.
- **Senior Karate Instructor** Sept 2020 - Present
Canadian Black Belt Academy
 - Planned and delivered karate classes of up to 35 students from ages 4 to adult. Coordinated and managed junior instructors and interfaced with parents in regards to registration, retail, and the progress of their children.

Education

- 2022 – 2026 ■ **BASc. Computer Science, McMaster University.** GPA: 11.1/12.0.
Coursework: Databases, Data Structures and Algorithms, Concurrent Systems, Web Programming, Computer Architecture, Discrete Math, Linear Algebra, Calculus, etc.
- 2018 – 2022 ■ **High School Diploma, Villanova College.** GPA: 98%.

Skills

- Languages ■ Rust, Python, JavaScript, TypeScript, PHP, Java, C, Bash, Haskell, R
- Tools ■ MySQL, PostgreSQL, SQLite, Git, Docker, Linux, Cloudflare, GitHub Actions
- Web ■ HTML, CSS, React, Next.js, TailwindCSS, Laravel

Miscellaneous Experience

- 2022 ■ **AP English Award**, Villanova College.
- **AP Physics Award**, Villanova College.
- **2nd Highest Academic Average (Grade 12)**, Villanova College.