

# Josef Graf

✉ josef@mrvilleage.dev

🐙 @mrvilleage

in Josef Graf

🌐 https://mrvilleage.dev

## Employment History

- 📌 **Student Researcher (CRLB-GMEL)** May 2021 - 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.
- 📌 **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 system 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 and Software Developer** Sept 2020 - Present  
*Canadian Black Belt Academy*
  - Principle software developer for the academy's all-on-one membership management system. Includes attendance, billing, belt tracking, and more.
  - 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

### Awards and Achievements

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