

JOSEF GRAF

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HIGHLIGHTS OF QUALIFICATIONS

- Working Software Developer and Computer Science student at McMaster University.
- Extensive experience with React, TypeScript, Rust, PHP, Python, HTML, and CSS.
- Innovative and consistently curious to learn and apply new concepts.
- Effective organization, time management, project management, and leadership skills.

WORK EXPERIENCE

Student Researcher (CRLB-GMEL) May 2024 – Present Population Health Research Institute, Hamilton, Ontario

- Optimized pipelines with improvements of up to 20x.
- Created libraries for use by other researchers including [lmutils](#) and [plots.r](#).

Software Developer July 2024 – Present Baseline Technologies, St Francis, Minnesota (Remote)

- Modernized backend and implemented new backend modules (including licenses).

Software Developer – Politics & War Mar 2022 – June 2024 Yellowstone Digital Media, Billings, Montana (Remote)

- Worked to improve and incrementally rewrite legacy PHP codebase with new features such a WebSocket-based real-time API for a player base of more than six thousand.
- 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, Bolton, Ontario

- Building platform for billing, attendance, membership management, and resources.
- Achieved second degree black belt and served as a role-model and resource for students.

EDUCATION

Bachelor of Applied Science, Computer Science 2022 - Present McMaster University (Hamilton, Ontario)

- Current grades average 11.4 on the 12-point scale.
- Completed courses Databases, Data Structures and Algorithms, Concurrent Systems, Web Programming, Computer Architecture, Discrete Math, Linear Algebra, and Calculus.

TECHNICAL EXPERIENCE

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|--------------|-----------|-----------|---------------|
| • Rust | • Java | • React | • Laravel |
| • Python | • C | • Next.js | • TailwindCSS |
| • TypeScript | • Bash | • HTML | • Linux |
| • PHP | • Haskell | • CSS | • Cloudflare |