

JOSEF GRAF

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HIGHLIGHTS OF QUALIFICATIONS

- Enrolled in second year Computer Science at McMaster University
- Innovative and consistently curious to learn and apply new concepts
- Proficient with React, CSS, TypeScript, Rust, Python, and other technologies
- Effective organization, time management, project management developed through previous work experience



WORK EXPERIENCE

Software Developer Intern

May 2023 – Aug 2023

Seer Inc, Redwood City, California (Remote)

- Worked independently to develop new features such as a WebSocket-based real-time system and PDF exports

Software Developer and Development Manager

Mar 2022 – Present

Yellowstone Digital Media, Billings, Montana (Remote)

- Primary part-time developer for Politics and War servicing approximately six thousand players, under the supervision of the game owner
- Independently implemented new features like two factor authentication and rewrote legacy code for significant portions of the codebase including the wars and projects systems
- Coordinated and managed various volunteer teams including the API, Game Design, and Quality Assurance Teams
- Spearheaded increased transparency and engagement with the community throughout the entire game development process through live community discussions and blog posts
- Constructed real-time API from the ground up and actively iterated to provide improvements

Senior Karate Instructor and Software Developer

Sept 2020 - Present

Canadian Black Belt Academy, Bolton, Ontario

- Currently building an all-in-one platform for billing, attendance, membership management, and resources for the school
- Achieved second degree black belt and served as a role-model and resource for students
- Delivered planned lessons to karate classes of up to 35 students between the ages of 6 and 16
- Completed leadership training, supervised and directed students and junior staff during classes and exam nights



EDUCATION

Bachelor of Applied Science, Computer Science

2022 - Present

McMaster University (Hamilton, Ontario)

- Current grades average a 3.9 on the 4.0 scale



TECHNICAL EXPERIENCE

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



SIGNIFICANT PROJECTS

Rift | Discord bot and service for Politics and War (online game)

- Developed a Discord bot called Rift for Politics and War
- Rift provides an easy-to-use interface for users to get and view information about the game as well as to manage their nation and alliance both on Discord and in the game through ticket and embassies systems, custom menus, target finding, an advanced automatic banking system, and much more
- I have since moved on from this project, the associated repository can be found here <https://github.com/mrvillage/rift>

TeamCBBA | An all-in-one platform for membership management, billing, and more for my karate school

- A work in progress all-in-one platform for my karate school
- The website can be found here <https://teamcbba.pages.dev>

bay-lang | A Rust-like programming language with a focus on memory and logical safety

- Currently in the planning and experimental phase, with some portions available on GitHub and others as private sketches
- The associated repository can be found here <https://github.com/bay-lang/bay>

rift-lang | An expression language implemented in Rust loosely based on Common Expression Language

- The associated repository can be found here <https://github.com/mrvillage/rift-lang>

pnwkit | A set of libraries for interacting with the Politics and War API

- The project includes a core Rust library, a Rust wrapper, and in the future wrappers for Python and TypeScript
- The associated repository can be found here <https://github.com/mrvillage/pnwkit>

mrvillage.dev | My personal website

- The associated repository can be found here <https://github.com/mrvillage/mrvillage.dev>

mrvillage-cli | A personal command line tool for automating repetitive tasks

- The associated repository can be found here <https://github.com/mrvillage/mrvillage-cli>

sero | A Rust crate for managing a shared set of locks

- The associated repository can be found here <https://github.com/mrvillage/sero>



ACTIVITIES

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| • Second Degree Black Belt in Karate | • McMaster Dungeons and Dragons Member |
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