# Vidhan Bhatt

Software Developer

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## Education

**McMaster University** | GPA: 3.83/4.0 Sep. 2022 - Present

*Bachelor of Computer Science*

- **Coursework:** Data Structures & Algorithms, Operating Systems, Computer Architecture, Databases & SQL, Computer Networks & Security, Concurrent Systems, Compilers, Programming Languages, Software Engineering, Data Mining, Automata & Computability
- **Technical Foundations:** Algorithm design & complexity analysis, object-oriented and functional programming, multithreading & synchronization, relational database design, TCP/IP networking, compiler construction, software correctness

## Experience

**Sun Life** | Associate Software Engineer May. 2024 - Aug. 2024

- Migrated database queries to PostgreSQL and updated documentation for the Java backend
- Researched web notification technologies and evaluated potential implementation approaches
- Developed and iterated on a complete front end of a proof of concept, presenting it to stakeholders

**Flipp** | Associate Software Engineer May. 2025 - Apr. 2026

- Led a comprehensive refactor of a critical advertising component and implemented the majority of the changes
- Refactored backend request handling and introduced caching, reducing requests to some internal endpoints by up to 98%
- Co-led the research and implementation of video advertising capabilities
- Pioneered and promoted agentic development practices within the team

## Projects

**vidhan.io** | Rust, Markdown, Typst, GitHub Actions Jul. 2023 - Present

*A personal website and blog, written in Rust.*

- Uses Typst to generate this very resume automatically and serve it as a static asset
- Parses markdown blog posts and renders them as HTML
- Uses tree-sitter to provide powerful IDE-like syntax highlighting for blog posts
- Published as an open-source project/example of a website in Rust, and has accumulated 50+ stars on GitHub

**hypertext** | Rust, GitHub Actions Jan. 2024 - Present

*A blazing fast type-checked HTML macro library for Rust.*

- Created for use as an HTML template engine in my personal website
- Uses Rust's type system to ensure that HTML tags and attributes are valid
- Published as an open-source project/library, and has accumulated almost 300 stars on GitHub and is used in 10+ other websites

## Technical Skills

**Programming Languages**

Nix, Rust, Go, JavaScript, TypeScript, Python, Haskell, Java, Shell Scripting, HTML, CSS, C++, C, Elm

**Frameworks & Databases**

llama.cpp, Agent Client Protocol, Discord API, React, Next.js, Node.js, Svelte, Tailwind CSS, SQL (PostgreSQL, SQLite, Supabase), MongoDB, Sled

**DevOps**

NixOS, Docker, Git, GitHub, GitHub Actions, Kubernetes, Fly.io, Vercel, Google Cloud Platform