MICHAEL SENDKER
Software Developer

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WHO I AM

I like to call myself a Software Mechanic. My career is one of quick and efficient problem solving everything from technology issues to inefficient algorithms. I've streamlined build systems, built testing platforms, refactored hpc math code, experimented with shaders and CUDA, designed build and test pipelines, and maintained compute allocation platforms. I have built static sites in GatsbyJS, interfaces in WPF, and web scrapers in Python. I've written data readers in C and parsers in C++. I've worked on ml, web apps, and testing tools. I dabble in compiler studies. I once built an arduino-based PID controller for a popcorn popper to roast my own coffee.

I am a Python expert, and proficient in JavaScript, C++, C#, and C. I've dabbled in Rust, Scheme, and Bash. I once started working on a project written in a language I'd never dealt with (C#), using an IDE I'd never opened (Visual Studio), and a paradigm I'd never tried my hand at (desktop applications), and was building new modules within a fortnight. I may not be able to write an efficient fast fourier transform, but I can probably figure out a technical solution for a given problem faster than the next guy. And while I'm not going to rewrite your trig, you can trust that I understand what a "hotpath" is and can find a way to speed it up.

EXPERIENCE

2022 – Current   **Onto Innovation**   Software Engineer

`Python — C++ — C# — C — pytest — scikit-learn — pandas — Azure DevOps`

- Worked on automated testing for various applications
- Managed and upgraded the build configurations for various applications
- Built visualization tools for testing results
- Developed and maintained support applications in a variety of languages
- Developed, maintained, and improved devops infrastructure
- Lead a major compiler upgrade project for a critical application
- Maintained and improved a C# compute allocation platform

2021 – 2022   **HtmMbs LLC**   Software Developer

`Python — Flask — SQLAlchemy — PostgreSQL — jQuery — ReactJS — Odoo`

- Built a sophisticated perpetual inventory system.
- Created a tool for (de)allocating inventory locations for their customized legacy Odoo.
- Improved the Arduino code used for LED location indicators, reducing the line length code to a ninth.
- Started a company wiki for general documentation, a GitHub organization for version control, a 1Password repository for security and helped them improve their backup systems.

2020 – 2021   **Healthy Brands, LLC**   Contract Developer

`Python — BeautifulSoup4 — Django — SQLAlchemy — PostgreSQL — Arch Linux`

- Built a multithreaded scraper and alert system for tracking Amazon BuyBox loss events
- Built ask.fiteyes.com, a Django-based question and answer forum built upon Biostar. Contributed several bug fixes back upstream.
- Prepared and maintained several VPS servers.
- Did general systems programming, including Systemd Units and Timers for varied infrastructure

2020 – 2021	**Laser System Interface**	**Contract**

`C#` — `Windows Presentation Foundation` — `SQLite`

Worked on a gui interface for a skin condition treatment laser system.

2020	**Euler Sciences LLC Website**	**Contract**

`Photoshop` — `GatsbyJS` — `ReactJS` — `GraphQL`

2017 – 2020	**Glendale Painting Corporation**	**Office Manager, Technology Director**

`Python` — `GatsbyJS` — `ReactJS` — `GraphQL` — `Joomla` — `Quickbooks` — `Excel`

- Built the company website (twice)
- Analyzed county parcel data for Facebook marketing campaigns
- Automated bookkeeping, and did general office management.

EDUCATION

2008 – 2010	**Philosophy and Classics**	**Florida State University**

Focused on Ancient Philosophy, particularly Aristotle, Philosphy of Mind, and Symbolic Logic. Also studied Ancient Greek and Latin. President of Philosophy Club (2010)

2007 – 2008	**Philosophy**	**University of South Florida**

General introductory classes, Social Philosophy, Critical Thinking

LANGUAGES

English — native
French — fluent
Spanish — rudimentary
Latin — for fun

FREE TIME

I run daily, cycle often, and work out regularly. I enjoy poetry, classics, and have a weakness for politics. I program for fun sometimes, and I've rewritten my personal static site generator in Python, C++, and am working on C. I also have a strange fascination with compilers.