

Violet Jane Shreve



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Skills

- Python, Ruby, Golang, C, C++, HTML/CSS/JS; Familiar with Rust, Lua, Unity3D/C#
- PostgreSQL, SQLite3 database administration
- Containerized Dev: Docker, Kubernetes, Helm
- Solutions Architecting in AWS: Cloudformation, EKS, RDS, ECS, CodeBuild
- OS programming: concurrency, memory management, resource contention
- Network programming: sockets, TCP/IP, TLS, DNS
- Debugging: I love tracking down the source of a bug by searching logs, gdb, or just reading the code

Experience

Senior Software Developer, UMSI Computing Services, Remote

Jan 2021-Present

The CS team acts like an in-house consultancy to solve the problems of other units.

- Developed a data and automation hub to streamline online course delivery
- Rebuilt CI pipeline for course dev, resulting in a frequent 2x speedup and fewer bugs reaching students
- Contributed upstream to the Jupyter, Nbgrader, and IPython OSS projects (esp. proud of ipython#13934)
- References: Charles Yun, Michael Hess, Krista Dunger

Research Assistant, Refraction Networking, Remote

Summer 2020

Refraction Networking is a project which develops censorship circumvention tools.

- Developed method to resume TLS 1.3 sessions on a proxy server with OpenSSL, C, and Rust.
- Updated Tapdance protocol spec and Golang client implementation to reflect TLS 1.3 changes.
- References: Eric Wustrow, Jack Wampler, and J. Alex Halderman

Software Engineer, Wellopp, Remote

Jan 2016-Aug 2019

Wellopp is a healthcare startup dedicated to reducing unnecessary hospital readmissions.

- Developed SMS patient outreach product using Twilio API, Ruby on Rails, Docker, K8s, and CircleCI
- References: Andrew Stewart, Nicholas Gronow, and Jon Wiedmann

Freelance Web Developer, Shreve Labs, Remote

Aug 2014-Dec 2015

Shreve Labs is the company I created for my freelance work and side projects.

- Developed and maintained Ruby and Ruby on Rails software for clients around the world.

Web Developer, Online Ventures, Howell, MI

Apr 2012-May 2014

Online Ventures is a consultancy that improves clients' business performance with software.

- Created CMS software using Ruby on Rails for several local businesses.

Education

B.S.E. in Computer Science

Graduated August 2020

University of Michigan, Ann Arbor

- *Course Work:* Cryptography, Computer Security, Computer Architecture, Operating Systems, Web Systems, Data Structures & Algorithms, Statistics, Video Game Development, Ethics
- Created UI for WolverineSoft Game Dev Club's Semester Studio Project with over 60 contributors

Projects

- *MapReduce Server:* Hadoop-style master and worker for distributed computation with Python
- *Network File System:* A concurrent, remote over TCP, crash-safe file system interface
- *Web Security:* SQL-injection, XSS, and CSRF exploits in CTF challenges
- *Roku:* Libraries in Go, Ruby, and Rust which find and control Roku devices on the network
- *tui:* A Go library for building and efficiently rendering terminal user interface applications
- *sso:* Automatic multi-site single sign on library in Go à la Stack Exchange
- *Secret Sharing:* A Ruby library which implements Shamir's Secret Sharing