Christopher Smith
chris@smith.xyz | github.com/chris13524 | gitlab.com/chris13524

Education

2021   Bachelors in Software Engineering from Harrisburg University of Science and Technology
       Expected date of graduation: Spring 2021
       3.8 GPA
2021   Masters in Software Engineering from Harrisburg University of Science and Technology
       Expected date of graduation: Fall 2021

Skillset

Rust	Python	Angular	Nginx	DigitalOcean
TypeScript	C/C++	Bootstrap	MariaDB	NATS
Docker	Groovy	Node.js	MySQL	Karma
Kubernetes	Grails	Git	Redis	Protractor
Devops	HTML5	Bash	Let's Encrypt	REST
CI/CD	CSS	Linux	Traefik	Stripe
Java	SASS	ZFS	DNS	Mailgun
JavaFX	JavaScript	GitLab	HTTP	SSH

Experience

2020-current **System architect at Gridlock** | gridlock.network
- Designed inter-node protocol using NATS.
- Implemented threshold signature generation and signing code with small team.
- Implemented communication hub in Rust.
- Developed continuous integration and delivery pipeline to test and deploy.
- Responded to user feedback to improve product.

2017-current **Lead software engineer at GivingTools** | givingtools.com
- Application has transacted over $36 million to date via cards and ACH.
- Managed small development team.
- Integrated 5 different payment processors into a unified system.
- Technologies: Angular, Rust, Node.js, Java, MySQL, Redis, Docker, Kubernetes.
- Worked closely with business, marketing departments, and customers to determine requirements and manage the product development lifecycle.

2019-current **Development Lead at Harrisburg University**
- Design and implement software with small team of 6 people to run on Harrisburg University's server cluster.
- Software helps undergraduate and graduate programs.
- Utilized technologies including Kubernetes, OpenStack, Rust, and Node.js.

Freelance projects

TacoDNS | gitlab.com/chris13524/tacodns
- Implemented an authoritative DNS server.
- Read and compared RFCs to implement the DNS protocol.
- Written in Rust.
- Much fun.

Reverse engineered keyboard to develop custom light controlling software
- Worked with a small team to reverse engineering the Das Keyboard 5Q keyboard.
- Used Wireshark to figure out the USB protocol being used.
- Wrote several Node.js-based libraries and applications to talk to the keyboard and control its lighting effects.

PrivatePM | privatepm.com
- A free service that makes sharing sensitive information (such as passwords) easy and secure.
- Developed using Angular, Node.js, and Redis.

Kill Bill consulting
- Consulting with Textellent's developers and advised on Kill Bill integration.

Mail Bucket | mailbucket.io
- A free service that enables developers writing test cases to easily test their email sending stack.
- Developed with Grails.