

TYLER WOODRUFF

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Education

University of Florida

B.S. in Computer Science, Major GPA 3.92/4.0

May 2024

Gainesville, FL

Experience

Nyte Health

November 2023 – Present

Software Engineer | AWS Lambda, CDK, DynamoDB, Go, Typescript, GitHub Actions

Remote

- Implemented system to convert proprietary data format to X12 HIPAA EDI format.
- Designed and built application and microservices for submitting insurance benefits inquiries and claims to payers.
- Created GitHub Actions CI/CD pipeline for deploying cloud-native CDK infrastructure to AWS.

FIS Global

June 2023 – August 2023

Software Engineer Intern | Docker, C++

Milwaukee, WI

- Collaborated with other interns to design a Docker-based deployment environment for FIS's IST Switch.
- Presented work to senior developers on multi-national teams.
- Wrote and updated documentation for Docker-based IST Switch development and deployment.

FluidSecure

June 2022 – August 2022

Software Developer Intern | Wordpress

Tallahassee, FL

- Improved accessibility on company website.
- Created multimedia marketing materials and webpages for newly-released products.

Projects

Cyber Search (UF Startup Incubator) | Go, TypeScript, Sveltekit, Tailwind CSS, PostgreSQL

October 2023

- Built a tool for looking up people by their names, phone numbers, addresses, and social media accounts.
- Developed scripts to scrape web pages, store valuable information, and find further pages to scrape.
- Implemented custom TLS client to bypass industry-grade Cloudflare anti-bot solutions.
- Admitted into UF Gator Hatchery Startup Incubator.

OS Network Stack Fingerprinter | Go, PCAP Packet Capturing

August 2023

- Architected an application for fingerprinting remote machines' network stacks via TCP/IP packet header values.
- Developed firewall to block unrecognized fingerprints from reaching vulnerable services.
- Successfully blocked 60% of malicious requests to machine in live CTF competition.

SHA-256 & MD5 Implemetation (Data Structures Project) | Go, SHA-256, MD5

December 2022

- Built popular cryptographic hash functions to NIST whitepaper specification from scratch.
- Implemented a system for direct comparison of hashing speed between the two algorithms.

0xRay NFT Extension | Go, JavaScript, React, Chrome Extension

September 2021

- Designed algorithm to calculate rarity of individual NFTs relative to others in same collection.
- Displayed NFT information directly onto Opensea.io for convenient access.
- Shipped the first free NFT rarity extension. Concurrently served over 2,000 users.

Technical Skills

Languages: Go, Python, C, C++, Java 11, HTML/CSS, JavaScript, TypeScript, SQL

Developer Tools: AWS, Google Cloud, Git, IntelliJ, Visual Studio Code, Ghidra, GDB, VirtualBox, PostgreSQL

Technologies/Frameworks: Linux, Docker, MongoDB, Svelte, React, REST, Tailwind CSS, OAuth2, CI/CD, Microservices, AWS CDK/PaaS

Interests: Backend Development, Security, Reverse Engineering, Web Scraping, Automation

Leadership / Extracurricular

UF Gator Hatchery (Startup Incubator)

Fall 2023 – Present

Founder & Software Engineer

University of Florida

- Founded two software as a service companies in the medical and consumer background checking fields.
- Attended weekly collaborative meetings to discuss challenges and successes with other founders.

UF Student Infosec Team (UFSIT)

Fall 2023 – Present

Blue Team & CTF Team Member

University of Florida

- Attended weekly educational meetings about defensive cybersecurity.
- Participated in multiple CTF events under the university-sponsored team Kernel Sanders.