TYLER WOODRUFF

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EDUCATION

University of Florida   Gainesville, FL
Bachelor of Science in Computer Science, 3.92 Major GPA   *Aug. 2019 – May 2024*

EXPERIENCE

Full-Stack Developer Contractor   Feb. 2024 – May 2024
DropSight   *Remote*
- Developed a full-stack web application to share timely, location-specific information with end users
- Built with AWS Serverless tools, frameworks, and CDK to allow for infinite scale
- Worked constantly and directly with client to meet dynamic app requirements
- Implemented GitHub Actions CI/CD pipeline to automatically deploy pushed changes to dev and main branches

Software Engineer Intern   June 2023 – Aug. 2023
FIS Global   *Milwaukee, WI*
- Designed and implemented Docker-based environment for migrating existing codebase to cloud
- Presented updates to development of proof-of-concept to senior developers weekly
- Wrote documentation for developing within Docker-based environment

Software Developer Intern   June 2022 – Aug. 2022
FluidSecure   *Tallahassee, FL*
- Improved accessibility (a11y) on customer-facing WordPress website
- Created multi-media marketing materials and web pages for new products

PROJECTS

Nyte Health | *Go, SvelteKit, AWS Serverless*   Dec. 2023 – Present
- Built system to convert proprietary data format to X12 HIPAA EDI
- Developed system to send, receive, and manage insurance forms to/from payers and clearinghouses
- Designed Serverless infrastructure with AWS CDK, Lambda, API Gateway, and DynamoDB

Cyber Search | *Go, SvelteKit, PostgreSQL, SQLite, Stripe API, Web Scraping*   Oct. 2023 – Feb. 2024
- Built a full-stack background checking website for finding addresses, phone numbers, and relatives of individuals
- Developed a bot to scrape publicly available data from the web and store locally for user requests
- Implemented system to accept payment for a monthly premium subscription using Stripe

Network Stack Fingerprinter | *Go, Pcap, Networking*   Aug. 2023
- Designed a system to listen to network traffic and block access to a reverse proxy server by machine fingerprint
- Used OS-specific default TCP/IP packet header values to faithfully distinguish different OSes
- Deployed at a live attack/defend CTF and successfully blocked 60% of malicious traffic with minimal configuration

Hash Function Implementations | *Go, SHA-256, MD5*   Dec. 2022
- Built common cryptographic hash functions to NIST whitepaper specifications
- Designed and implemented a way to compare the true, practical hashing speed of each

0xRay Chrome Extension | *Go, React, SQLite, Web Scraping*   Sep. 2021 – Nov. 2021
- Shipped a full-stack web app to end users in under 2 weeks to beat competitors to market
- Quickly scaled to over 2,000 users in under a week
- Built a web scraper to automatically discover, collect data about, and process new NFT collections

TECHNICAL SKILLS

Languages: Go, TypeScript, JavaScript, Java, Python, C/C++, SQL (Postgres, SQLite), HTML/CSS
Frameworks: React, SvelteKit, Node.js, CDK, WordPress, MongoDB, OAuth2, OIDC
Developer Tools: Git, Docker, AWS, Google Cloud Platform, VS Code, Visual Studio, JetBrains, Ghidra, GDB