



## OVERVIEW

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Software and Cybersecurity Engineering expert with over 14 years of comprehensive experience in systems development, software engineering, cloud, IT operations, and network security. Adept at architecting modern software systems and skilled in bolstering cybersecurity for both software applications and organizational infrastructure - both on-premise and in the cloud.

Proven leadership in roles with a track record of implementing secure and efficient IT solutions for diverse industries. Published author on password-less authentication, a continuous learner with a Master's in Cybersecurity, and a multitude of relevant certifications.

## WORK HISTORY

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### Digital Service Expert

[Defense Digital Service](#) (January 2025 - Present)

Cybersecurity and software expert for the Department of Defense.

### IT Director

[Jaktool](#) (June 2023 - Present)

- Lead IT and Security development for a DoD contractor
- Updated entire network to have proper VLAN and firewall support
- Audited CMMC v2.0 policy implementation
- Created MDM Azure policies for employee cell phone management
- Spec'ed new machines for development and manufacturing
- Created business continuity and disaster recovery plans, as well as major business processes

### Senior Software Developer

[Aerofarms](#) (May 2020 - July 2023)

- Architected and built modern TypeScript MES system utilizing GraphQL and Docker
- Developed hardware integrations for manufacturing and SCADA systems in Python
- Automated Meraki security and network infrastructure
- Created continuous integration systems for automated testing, security testing, and deployments

### Senior Software Developer

[Panther](#) (October 2022 - March 2023)

- Automated infrastructure on AWS with Pulumi Python SDK
- Add in new integrations between 3rd party services and ingestion pipeline using TypeScript and Golang
- Spec'ed and developed new webhooks public API
- Worked with security team to audit security of new systems

### Senior Software Security Developer

[1Password](#) (February 2022 - July 2022)

- Fix security related issues from penetration tests in Typescript and Golang
- Implement new security-based features for production application, including redis rate limiter using Lua
- Fix ACL issues in production application

## PUBLICATIONS

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Passkeys: A No-Frills Explainer On The Future Of Password-Less Authentication

[Smashing Magazine](#) (October 2023)

Passkeys: What the Heck and Why?

[CSS Tricks](#) (March 2023)

Putting Things in Context With React

[CSS Tricks](#) (March 2018)

## EDUCATION

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### Cybersecurity

New York University (January 2021 - December 2023)

Master of Science (MS) - Cyberfellow

Credential ID: 247Y-XKGT-NNFY

### Software Development

Western Governors University (December 2016 - December 2019)

Bachelor of Science (BS)

Credential ID: 24RB-08F2-N9EI

## CERTIFICATIONS

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### CloudNetX

CompTIA (July 2024)

### SecurityX ce (CASP+)

CompTIA (June 2024)

### PenTest+ ce

CompTIA (June 2021)

### CySA+ ce

CompTIA (November 2022)

Lead Software Developer

Modern Tribe Inc. (January 2019 - July 2020)

- Led a team of several developers for several SaaS products using Laravel
- Architected a framework that company will use to create applications for next 5+ years
- Created systems and custom bots for monitoring performance and application usage

Software Developer

Modern Tribe Inc. (May 2017 - January 2019)

- Created a custom, server-side rendered React SaaS application from scratch by following industry best practices
- Conceptualized and crafted a polished SaaS product with (4000+) tests using Jest and Cypress
- Developed and published React Native application

Software Developer

CK-12 Foundation (May 2015 - April 2017)

- Led new teacher dashboard efforts to better allow teachers to organize and monitor student progress through their curriculum
- Developed a D3.js concept map, showcasing subject material and interrelation with each other

Web Services Developer

Sama Group (February 2015 - May 2015)

- Managed multiple site resources amongst all companies
- Helped with development efforts related to multi-company projects with Ruby on Rails

Software Developer

Samahope (October 2014 - February 2015)

- Developed several applications to help raise money for doctor's performing life saving surgeries in third-world countries in Rails
- Integrated with physical mail systems to send postcards

Software Developer

Blulight Design (February 2011 - September 2014)

- Developed multiple e-commerce solutions with integrations into Amazon and Ebay with PHP
- Designed e-commerce websites and optimized them for SEO

CAE-Cyber Operations (CAE-CO)

National Security Agency (June 2024)

CAE-Cyber Defense (CAE-CD)

National Security Agency (June 2024)

Cloud+ ce

CompTIA (November 2024)

Server+ ce

CompTIA (April 2024)

Linux+ ce

CompTIA (December 2021)

Security+

CompTIA (January 2020)

Network+ ce

CompTIA (January 2021)

Project+

CompTIA (October 2018)

A+

CompTIA (April 2017)

ITIL Foundation Level

AXELOS (November 2018)

Credential: GR750503617NF

Advanced HTML5 & CSS3 Specialist

CIW (February 2018)

Credential: 802590

SKILLS

<a href="#">AI</a>	<a href="#">AWS</a>	<a href="#">Azure</a>	<a href="#">Bash</a>	<a href="#">C</a>	<a href="#">C++</a>	<a href="#">Cloud</a>	<a href="#">CMMC</a>	<a href="#">Compliance</a>	<a href="#">Cryptography</a>	<a href="#">CSS</a>	<a href="#">Docker</a>	<a href="#">Firewalls</a>	<a href="#">GDB</a>
<a href="#">Ghidra</a>	<a href="#">Git</a>	<a href="#">Golang</a>	<a href="#">GraphQL</a>	<a href="#">HTML</a>	<a href="#">JavaScript</a>	<a href="#">Linux</a>	<a href="#">Networking</a>	<a href="#">NIST 800-53</a>	<a href="#">NIST 800-171</a>	<a href="#">NixOS</a>			
<a href="#">OWASP</a>	<a href="#">Passkeys</a>	<a href="#">Policy</a>	<a href="#">PostgreSQL</a>	<a href="#">Python</a>	<a href="#">React</a>	<a href="#">Rust</a>	<a href="#">SAML</a>	<a href="#">SIEM</a>	<a href="#">Security Engineering</a>	<a href="#">SCADA</a>	<a href="#">SQL</a>		
<a href="#">TCP/IP</a>	<a href="#">TypeScript</a>	<a href="#">Virtualization</a>	<a href="#">VLAN</a>	<a href="#">VPN</a>	<a href="#">Vulnerability Management</a>	<a href="#">WebCrypto</a>	<a href="#">Windows Server</a>	<a href="#">Wireguard</a>					