**CALEB AFEWORK**

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# OBJECTIVE

A creative software engineer with experience in automation and a passion for creating innovative solutions for users. Skilled in a variety of technologies, focusing on cybersecurity and full-stack development. I am committed to promoting diversity and inclusion in the tech industry through community involvement.

# EDUCATION

**Bachelor of Cybersecurity and Information Assurance**, Western Governors University Expected Nov 2025

**Adult Technology Training Bootcamp**, Urban Tech Academy 2023

**Software Engineering Immersive Program**, General Assembly 2021

# CERTIFICATIONS

**Practical Network Penetration Tester (PNPT)**, TCM Security Expected Jan 2025

**SOC Core Skills**, Antisyphon Expected Jan 2025

# SKILLS

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| **Skills** | Software Development, Troubleshooting, Open-Source Intelligence Collection (OSINT), Penetration Testing, Vulnerability Scanning, Report  Writing / Documentation, Leadership, Communication |
| **Languages and Tools**  **EXPERIENCE** | JavaScript, SQL, Vue, Git, HTML, CSS, React.js, Express.js, Node.js, LotusScript, Python, Bash, VBScript, Docker, Jenkins, Webpack, Jest, Nmap, Tenable Nessus, Metasploit, Netcat, Hashcat,  BurpSuite, AWS Cloud (ec2, s3, VPC, AMI Creation), Virtualization Platforms, VMWare, |

# Software Support Engineer III Oct 2021 - Nov 2024

K-Care *Austin, TX*

* Updated and maintained application components using custom HTML, JavaScript, JSON, HCL “formula language,” and LotusScript to support cross-platform functionality for a user base exceeding 25,000 customers. Ensured integrity and compliance of regulatory documents by auditing and validating them to meet foster care and general case management standards, safeguarding business value and proper auditing by various agencies.
* Assisted in creating JavaScript input validation and regex checks to ensure data accuracy, security, and adherence to best practices for secure data manipulation. Designed and implemented JavaScript tools to automate sensitive document handling processes, reducing processing time by 30% while enhancing efficiency.
* Authored and maintained detailed internal documentation, including database management procedures, secure coding practices, troubleshooting techniques, and process optimizations, fostering team-wide knowledge sharing and operational consistency.
* Managed and secured databases by creating, updating, and deleting sensitive data stores to support application functionality and meet customer requirements, while adhering to industry-standard security protocols to ensure data integrity and prevent unauthorized access.

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| --- | --- |
| **Frontend Software Engineering Intern** | June 2021 - Aug 2021 |
| Moogsoft | *San Francisco, CA* |

* Refactored 60 functional components, optimizing our code for Vue 3 by eliminating redundancies, reorganizing code, and adoption of best practices.
* Spearheaded UAT unit tests in Jest, keeping code coverage above 90% - this allowed any potential issues to be identified earlier in the development cycle, not only resulting in a more secure and higher quality code (lowered frequency of patching as well).
* Migrated the developer build chain to apple M1 architecture.
* Utilized prefetch and preload techniques, reducing the page loading resources and resulting in a better user experience (Lighthouse score of 92 post implementation).

# PROJECTS

# Custom Form Data Cleansing – K-Care 2022

Implemented team process improvements that allowed for cross training and collaboration, increased efficiency (80%), and the reduction of code errors (85%) by accomplishing the following:

* Developed and tested scripts using HCL formula language to fetch client-side data and fields correctly (previous script would only import partial data and in an incorrect format).
* Diagnosed and mitigated a flaw that caused a site-wide issue with inline CSS failing inside of a web application. Since this web application could not undergo an outage or designated maintenance window, I resolved the issue by leveraging LotusScript agents to sanitize the client site payload.

# AWS Cloud Lab - 2022

Designed and deployed a virtualized cloud lab on Amazon Web Services (AWS) to simulate real-world cybersecurity scenarios and perform penetration testing using the following:

* Virtual Private Cloud (VPC) Configuration: Created a secure, isolated environment for hosting vulnerable virtual machines (VMs). Configured subnets, route tables, and a VPN endpoint for secure remote access.
* Elastic Compute Cloud (EC2) Instances: Deployed and managed multiple EC2 instances, including a Kali Linux attack box for security testing and analysis. Ensured scalability and reliability of the lab environment.
* Amazon Machine Image (AMI): Utilized AWS EC2 AMI to store and manage VM images, including importing the ”Breach” OVA. Automated deployment tasks with AWS Command Line Interface (CLI) for efficient resource management.

# LEADERSHIP

**Blacks in Technology**, Chapter President/Founder – Denver, CO (Volunteer) 2021 - Current

As a founding member of the Denver chapter, I led its vision, outreach, and educational initiatives, helping the organization grow from 4 to over 250 active members. My work focused on empowering and connecting Black professionals through impactful programs and events.

* Delivered community talks on career development and industry trends, educating hundreds of professionals.
* Organized and hosted networking events that connected members with companies and industry leaders.
* Developed and executed outreach strategies to expand membership and increase community engagement.