FERNANDO BRANCO MORAES

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EDUCATION

Virginia Polytechnic Institute and State University - Blacksburg, VA   *May 2025*
B.S. in Computer Science, Secure Computing Major, *Human-Computer Interaction Minor*
Cumulative GPA: 3.75 / 4.00

PROFESSIONAL EXPERIENCE

Solutions Engineer and Marketing Intern, AccuKnox - Remote   *November 2024 - Present*
- Delivered 10+ live technical demos to enterprise prospects, walking through CNAPP workflows, ASPM (SAST/DAST), agent-less CSPM for EC2, CWPP runtime policies with KubeArmor, and AI-SPM LLM firewalling, accelerating proof-of-concept cycles
- Produced 15+ narrated product tours that showed mitigation against critical vulnerabilities (e.g., CVE-2024-4040), secret-exposure risks in Kubernetes, S3 Buckets, and code repositories, and automated Kubernetes CIS benchmarking
- Collaborated on content strategy, publishing ebooks, blog posts, designing landing pages in Figma, and social media content that strengthened AccuKnox's technical authority, earning 27,000+ organic views

Cybersecurity Intern, Triple Point Security - Remote   *May 2025 - Present*
- Installed and configured Uncomplicated Firewall (UFW) and Windows Defender Firewall to block and unblock specific ports, IP ranges, and protocols, demonstrating control of incoming and outgoing traffic
- Wrote Terraform code to automate the deployment of AWS EC2 instances in seconds, eliminating repetitive console clicks and minimizing time spent to create an instance by 96%
- Provisioned and managed Ubuntu, Debian, and Windows VMs in VMware Fusion (on-prem) and on AWS, Azure, and GCP, demonstrating proficiency in both on-premise and cloud-based virtualization

Undergraduate Research Assistant, Crowd Intelligence Lab - Blacksburg, VA   *January 2025 - May 2025*
- Architected a responsive multi-screen interface in HTML, JavaScript, and Flask to unify AI-driven OSINT workflows across network discovery, vulnerability scanning, breach detection, and brand monitoring
- Engineered transparency features that document methodology and tooling, perform integrity checks, and corroborate results across multiple sources, increasing user trust in the findings
- Connected the AI agent's front-end and back-end systems through Flask endpoints, and applied prompt engineering techniques to dynamically adjust agent behavior in real time to user input and investigative context

Software Engineering Intern, Arceum - Remote   *May 2024 - August 2024*
- Programmed a Lua-based matchmaker platform for swapping buy and sell limit orders on-chain, optimizing passive liquidity utilization by 45%
- Implemented 50+ automated test cases using Mocha and Chai to boost code coverage to 85% and platform reliability by 16% while authoring architecture and deployment documentation for future enhancements
- Served as Scrum Master for a three-engineer pod, facilitating stand-ups, sprint planning, and retrospectives, achieving 95 percent sprint commitment accuracy and clearing backlog ahead of schedule

PERSONAL PROJECTS

- **HomeLab:** deployed an OPNsense firewall on a dedicated machine, segmented traffic with VLANs on a TP-Link smart switch, and monitored flows, hands-on proof of networking and security fundamentals
- **Terminal-like Personal Website:** Created static HTML, CSS, and JavaScript site that emulates a UNIX terminal and has information about my background, experiences, and hobbies (https://fernandobmoraes.github.io/)

CAMPUS INVOLVEMENT

- **Cyber Defense Team Member, CyberVT:** Contributed to strategic defenses for national cybersecurity competitions (e.g., DOE CyberForce), helping the team secure 1st place in the Blue Team category
- **Head of Software Development, VT Blockchain:** Led the development of a Solidity-based application
- **Soccer Player, VT Men's Club Soccer:** Midfielder, reinforced teamwork, discipline, and rapid decision making

TECHNICAL SKILLS

Programming Languages: C, Lua, Python, Swift, Java, JavaScript, Solidity, SQL

Skills: Jira, Confluence, Git, AWS, GCP, Azure, Kubernetes, Docker, Terraform, CNAPP, CSPM, CWPP, ASPM, GRC, CI/CD, SAST, DAST, TCP/IP, VLANs, OPNsense, KubeArmor, MacOS, Linux (Ubuntu/Amazon Linux), Windows, Git, Jira

Languages: Portuguese (native), English (fluent), Spanish (advanced), Chinese (beginner)