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; *Honors Student*, College of Engineering

PROFESSIONAL EXPERIENCE

Solutions Engineer and Marketing Intern, AccuKnox - Remote   *November 2024 - Present*
- Executed more than 10 technical demos demonstrating AccuKnox's runtime security capabilities, showcasing mitigation of critical vulnerabilities (e.g., CVE-2024-4040) and protection against secret exposure risks in Kubernetes, S3 Buckets, GCS, and code repositories
- Designed engaging landing pages in Figma and digital sales rooms using Send Trumpet, increasing lead engagement for multi-cloud security solutions by 8%
- Collaborated on content strategy, publishing ebooks, blog posts, and social media content that strengthened AccuKnox's technical authority, generating about 27,000 views

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, providing analysts with one centralized workspace
- Engineered transparency features that document methodology and tooling, perform integrity checks, and corroborate results across multiple sources, increasing user trust in the findings
- Connected 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

Undergraduate Research Assistant, PrivateEye Lab - Blacksburg, VA   *August 2024 - December 2024*
- Developed privacy-preserving techniques to generate synthetic datasets, leveraging Python libraries such as Pandas and NumPy while ensuring privacy guarantees through plausible deniability
- Conducted in-depth analysis of eye-tracking data to design innovative countermeasures against re-identification attacks, advancing research in biometric data security and privacy
- Collaborated in Agile sprints, presenting weekly research updates to over 10 cross-disciplinary team members

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 more than 50 test cases using Mocha and Chai frameworks, improving software reliability by 16%
- Formulated detailed documentation on platform architecture, usability, and deployment procedures

Cybersecurity and Observability Intern, Delfia Tech - São Paulo, Brazil   *May 2023 - May 2024*
- Created, customized, and automated Datadog dashboards for over 5 clients, optimizing monitoring and observability by tailoring metrics, alerts, and visualizations to specific operational needs
- Deployed and monitored a microservices-based e-commerce application on AWS using Datadog, leveraging Terraform and Kubernetes for cloud orchestration, real-time logging, and performance monitoring
- Configured Zscaler tools to strengthen Delfia's network security, reducing potential threats by 75%

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 decentralized application for reselling goods during an EasyA Hackathon at Harvard, showcasing blockchain knowledge
- **Soccer Player, VT Men's Club Soccer:** Strengthened teamwork, leadership, and discipline on and off the field
- **Award Recipient, Richard Warren Scholarship:** Awarded for outstanding academic achievement in Fall 2021

TECHNICAL SKILLS

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

Hard Skills: Cloud Security, Infrastructure as Code, Network Security, Application Security, Data Privacy, OSINT, Cryptography, Reverse Engineering, CI/CD, Mobile Application Development, REST APIs, Kubernetes, Docker, AWS, Git

Soft Skills: Problem-Solving, Public Speaking, Critical Thinking, Adaptability, Teamwork, Time Management, Leadership

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