William Cabell | Senior Software Engineer
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Extroverted, multi-skilled senior software engineer, mathematician, and cybersecurity professional seeking both remote and in-person roles that offer opportunities for creative problem solving, leadership, and the opportunity to drive innovation.

Skills

Full-stack software engineering, DevOps, cryptography, information, network, and application security, pure and applied mathematics, communication, problem solving, leadership.

Tools, Technologies, & Languages

AWS, bash/sh/zsh, C, C#, DigitalOcean, DNS, Docker, Docker Compose, French (~B1 level), firewalls, Flask, Git, GitHub, GNU/Linux, Golang, HTML/CSS, Java, JavaScript, Jenkins, MongoDB, Nmap, Node.js, PKI, Postgres, Python, Rust, Snowflake, Terraform, TLS, uWSGI, Vue.js, Wireshark, X.509.

Certifications

Certified Ethical Hacker; AWS Solutions Architect - Associate.

Experience

Senior Software Engineer, Capital One
January 2023–Present: Cyber Engineering, CryptoServices
  - Led Post-Quantum Cryptography (PQC) working group to determine enterprise PQC strategy
  - Provided data to CISO to inform enterprise TLS certificate automation and management strategy
  - Refactored complex enterprise scanning application to improve network coverage by 10,000% using serverless functions in Python, DynamoDB, and event-based message queues

Software Engineer, Capital One
January 2022–January 2023: Cyber Engineering, CryptoServices
  - Gave seminars on cryptographic algorithms and implementations across cybersecurity department
  - Architected and built highly resilient, highly secure, multi-layer API service to support HSM automation, combining serverless Lambda functions with Fargate serverless containers
  - Won elected position to represent new-grad rotational program of over 1,000 employees, met regularly with HR and executives to influence program direction

Associate Software Engineer, Capital One
August 2020–January 2022: Cyber Engineering, Endpoint & DLP, CryptoServices
  - Pioneered a new data aggregation platform for real-time enterprise monitoring of cybersecurity standards compliance

Data Engineering Intern, Capital One; Summer 2019
Software Development Intern, PIEtech, Inc.; Summer 2018

Education

Virginia Tech, 2017–2020. Bachelor of Science in Mathematics with a concentration in Applied Discrete Mathematics and a minor in Computer Science; GPA 3.6; President of math club, SailBOT ECE subteam lead. University of Malta, Exchange Student, January–June 2020.