Emmanuel Dade

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Cybersecurity student with hands-on application security and software development internship experience, including secure coding, API/database development, and Agile delivery.

EDUCATION

Old Dominion University **Aug 2023 - May 2027**

Bachelor of Science, Cybersecurity; Minor, Risk Management and Insurance *Norfolk, VA*

- GPA: 3.9/4.0
- Achievements: Dean's List — Fall 2023, Spring 2024, Fall 2024, Spring 2025, Fall 2025, Spring 2026
- Coursework: Linux Systems for Cybersecurity, Windows Systems Management and Security, Cyber Strategy and Policy, Cyber Programming and Networking, Cyber Techniques and Operations

TECHNICAL SKILLS

- Software Development: Full development lifecycle experience — requirements analysis, design, coding, unit/integration/system testing, debugging, and deployment
- APIs & Databases: RESTful API development and testing (Postman), SQL query design, relational schema basics (MySQL, PostgreSQL)
- Methodologies: Agile/Scrum ceremonies (sprint planning, stand-ups, retrospectives), DevSecOps workflows
- Identity & Access Management: User provisioning & de-provisioning, access control, least privilege, access reviews
- Programming Languages: Python, Java, C/C++, JavaScript, SQL, HTML/CSS
- Security & Developer Tools: Linux, Windows systems, Wireshark, VMware, Nmap, Nessus, OpenVAS, Burp Suite, Azure DevOps, SonarQube, Wiz
- Development Practices: Version control, code reviews, CI/CD pipelines, Agile/DevSecOps workflows
- Compliance & Monitoring: Log analysis, audit documentation, HIPAA fundamentals, GDPR awareness

WORK EXPERIENCE

Markel **Jun 2026 - Aug 2026**

Application Security Intern *Richmond, VA*

- Assisted in implementing Wiz CLI into the CI/CD pipeline (Azure DevOps, GitHub, GitHub Actions) for an AI-assisted Claude/Jira automation project, adding automated security scanning to the build process
- Designed, developed, and supported the integration of security tooling within development environments, CI/CD pipelines, and source control platforms, translating business and technical requirements into working solutions
- Conducted application security reviews using SAST, secure code analysis, and vulnerability validation techniques; performed penetration testing against web applications and APIs and documented findings and remediation recommendations
- Evaluated authentication, authorization, and API security controls against OWASP standards, and managed vulnerability tracking and remediation workflows with development, engineering, and security stakeholders, reducing open critical findings by 35% over the internship
- Participated in Agile sprint planning, stand-ups, and retrospectives, and coordinated with QA personnel to confirm remediated code met quality and release standards
- Designed and tested AI abuse case scenarios against the automated Claude/Jira workflow to identify potential security and misuse vulnerabilities

Democratic Governors Association **Jan 2026 - May 2026**

Coding & Data Intern *Washington, DC*

- Designed, developed, and maintained Python applications and automation scripts to clean, organize, and validate large datasets, reducing manual data-entry time by an estimated 20+ hours per month across projects
- Translated functional and business requirements into a software solution by engineering an offline version of a web-based application, improving performance for larger file sizes and faster processing speeds
- Designed and developed a web scraper and system interfaces to capture and structure an entire organizational database, maintaining and updating codebases to ensure functionality and compatibility for cross-team development
- Monitored application performance and provided ongoing maintenance for internal tools, and built lightweight backup/versioning routines into pipelines to support recovery from failed scraping runs
- Identified, troubleshot, and resolved application defects through root-cause analysis, and evaluated open-source platforms (e.g., GitHub) to benchmark tools for in-house integration while maintaining confidentiality of sensitive data

PROJECTS

Arizona Lobbying Expenditure Data Pipeline

Democratic Governors Association

- Engineered a multi-year web scraper using Selenium and Python to extract lobbying expenditure records from the Arizona Secretary of State's legacy ASP.NET portal across 5 years and 4 quarterly filings, parsing government-published summary documents with pdfplumber, python-docx, and odfpy to build a master reference list of 1,393 unique lobbyist IDs across 2021-2024
- Implemented a fault-tolerant scraping architecture with retry logic, exponential backoff, incremental saves, and checkpointing to support system resiliency against legacy server timeouts and browser crashes
- Identified and resolved critical gaps in A-Z search logic by pivoting to a PDF-based lobbyist ID extraction strategy, increasing coverage from ~80% to near-complete

CERTIFICATIONS

- CompTIA Security+ (in progress, expected October 2026)