

Tyree Carpenter

Richmond, VA

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 <https://github.com/tyreesamurai>  [TS/SCI Clearance](#)

Education

Virginia Commonwealth University

BS, Computer Science, Concentration in Software Engineering

- Coursework: Software as a Service (SaaS), Database Theory, Fundamentals of Software Engineering, Data Communication & Networking, Advanced Data Structures & Algorithms

May 2025

Richmond, VA

Cochise College

AAS, Intelligence Operations Studies

Sep 2017 - May 2018

Sierra Vista, AZ

Technical Skills

- **Programming Languages:** JavaScript/TypeScript, Go (Golang), Java, Python, C/C++, Rust, C#, Bash
- **Web Development:** React, Next.js, React-Native, Node.js, Flask, GraphQL, Spring Boot, ASP.NET Core, REST APIs
- **Database Management:** MySQL, PostgreSQL, SQLite, MongoDB, Firebase, Redis
- **DevOps & Infrastructure:** Docker, Docker Compose, GitHub Actions, CI/CD Pipelines, Linux/UNIX, NGINX, Apache
- **Other Skills:** Git, Jira, Postman, Swagger/OpenAPI, Agile/Scrum, Test-Driven Development, Figma, NeoVim

Experience

VCU School of Nursing | Software Engineering Intern

Aug 2024 - May 2025

- Led frontend development of a clinician-facing React Native application integrated with a secure Rust-based API and MySQL database to modernize workflows for the Mobile Health & Welfare Program.
- Engineered a custom interface enabling clinicians to securely create, read, update, and delete patient data through REDCap, achieving functionality not possible with the original system.
- Designed and implemented a patient overview dashboard featuring key data visualizations (e.g., vitals over time) to help clinicians prepare for visits with insights previously unavailable.
- Conducted research on HIPAA compliance to ensure appropriate privacy protocols and contributed to a solution impactful enough to secure budget allocation for long-term production development.

VCU Chemical and Life Sciences | Scientific Software Engineer

Jan 2024 - Aug 2024

- Developed a comprehensive data management system using PDF parsing to extract critical information and transform data into structured JSON for storage in a MySQL database, improving data accessibility and accuracy.
- Spearheaded the development of a Next.js-based user interface to facilitate efficient interaction with departmental databases, resulting in improved user engagement and data retrieval speed.
- Leveraged a robust tech stack (JavaScript/TypeScript, Python, SQL) to enhance departmental operations and streamline workflows, leading to increased productivity and reduced processing time.

United States Army | Targeting Intelligence Analyst

Jan 2022 - Nov 2023

- Conducted large-scale network and entity analysis by fusing multi-source datasets to identify key individuals, behavioral patterns, and operational risks, aligning closely with predictive modeling workflows.
- Designed visual reports and dashboards to support data-driven decisions across U.S. and NATO operations, simplifying complex data into strategic insights for leadership.
- Led biweekly cross-functional briefings presenting data-backed recommendations to commanders, improving targeting precision and operational outcomes.
- Synthesized public and classified datasets (OSINT, GEOINT, HUMINT) to inform multi-national planning efforts and decision timelines.

United States Army | Cyber Intelligence Analyst

Sep 2016 - Present

- Conducted software analysis and vulnerability assessments to identify weaknesses in web applications and networked systems, leveraging understanding of system architecture and development patterns, which improved system security and reduced potential threats.
- Studied and simulated software attack vectors in training environments, requiring knowledge of common software vulnerabilities and how applications are structured and deployed, which enhanced team readiness and response strategies.
- Collaborated with cyber professionals to explore exploit mitigation and system hardening techniques, bridging concepts between intelligence analysis and secure software engineering practices, resulting in improved system defenses and reduced vulnerabilities.
- Led cross-functional teams in multinational environments to achieve critical objectives, ensuring effective collaboration and seamless communication, which resulted in successful mission outcomes and enhanced team efficiency.