

Winston Shields

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GitHub: <https://github.com/WinstonShields>

Portfolio: <https://winstonshields.github.io/>

EDUCATION & CERTIFICATIONS

Old Dominion University, Norfolk, VA

Master of Science in Computer Science – August 2022 | GPA: 3.76

Bachelor of Science in Computer Science – August 2021 | GPA: 3.64

Minor: Computer Engineering

CompTIA Security+ – March 2025

Active Secret Clearance

RELEVANT COURSEWORK

Software Engineering, Data Structures & Algorithms, Object-Oriented Programming, Programming Languages, Operating Systems, Unix, Discrete Structures, Theoretical CS, App Development, Web Programming, AI, Game Development, Information Retrieval

TECHNICAL SKILLS

Languages: C++, Java, Python, JavaScript, TypeScript, HTML, CSS, PHP, SQL (MySQL/SQLite/SQL Server/Postgres), C# (.NET)

Frameworks/Tools: React.js, Node.js, Android Studio, Firebase, Unity, Git, Linux, Elasticsearch, Jest, Angular, Vue.js, GraphQL

PROFESSIONAL EXPERIENCE

Software Engineer | Davis Strategic Innovations, Inc. | Newport News, VA | Aug 2025 - Present

- Implemented functionality for updating dynamic styling, shapes, lines, and timer logic for entities on a web-based global interface
- Implemented dynamic styling updates for data tables on web-based application
- Fixed frontend bugs such as the reordering of columns causing the tables to break

Software Engineer II | Huntington Ingalls Mission Technologies | Virginia Beach, VA | Oct 2024 – Aug 2025

- Implemented configuration handling for multiple versions of data collection software
- Built unit tests for Angular frontend
- Updated SQL scripts for combat engagement reports
- Resolved frontend bugs, including color contrast and disabled button issues

Software Engineer I | CoStar Group | Norfolk, VA | Feb 2024 – Oct 2024

- Built UI and backend services for company-based contact prospect views
- Used Elasticsearch for data aggregation and optimization (C#)
- Developed frontend with TypeScript and React.js

Associate Software Engineer | CoStar Group | Norfolk, VA | May 2022 – Feb 2024

- Enhanced sales hierarchy management tool with React.js, C#, and SQL Server
- Built features: export hierarchy to CSV, view audit history, role-based contact views
- Created unit tests and multiple backend endpoints
- Improved frontend performance with asynchronous JavaScript

Software Engineering Intern | Torrential Data Solutions | Virginia Beach, VA | May 2021 – Aug 2021

- Improved legacy scan client (C#): settings persistence, resume interrupted scans
- Enhanced legacy SQL manager UI with Quick Link functionality
- Fixed Vue.js frontend issues on document management site
- Utilized Azure DevOps for agile tasks and code reviews

Undergraduate Research Assistant | Old Dominion University | Norfolk, VA | Dec 2020 – May 2022

- Built search engines for patent figures and scholarly articles (HTML, CSS, JS, PHP, Elasticsearch, MySQL)
- Developed fake scientific claims analysis tool (React.js, Node.js, MySQL, Elasticsearch)

Undergraduate Research Assistant | Old Dominion University | Norfolk, VA | Sep 2019 – Aug 2020

- Contributed to computer vision research on Autism Spectrum Disorder
- Debugged and enhanced C# data collection software

ACADEMIC PROJECTS

Super Mario Bros Level Recreation – Unity & C#

- Scripted player/enemy behavior, animations, health systems

Android Fitness App – Android Studio

- Features: workout logging, sharing, scheduling
- Used XML for UI and Firebase + SQLite for storage

Image Reproduction via Genetic Algorithm – Python

- Evolved triangle-based images using fitness/crossover functions