

KHOI LE

Centreville, Virginia 20121

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Education

George Mason University

Bachelor of Science in Computer Science

May 2026

Fairfax, VA

Relevant Coursework

- Software Engineering
- Full-Stack Development
- System Programming
- Operating System
- Algorithm Analysis
- Data Structures
- Operating System
- Secure Programming

Experience

Leidos, Inc

June 2024 – Present

Web Developer

Alexandria, VA

- Collaborating in a team of four to develop a full-stack web application using Django and PostgreSQL, showcasing key data for multiple aircraft, airports, and sensors.
- Successfully integrated dynamic data fetching and visualization features with JavaScript and Chart.js, enhancing user interactivity and experience.
- Leveraging geospatial data from PostgreSQL to create interactive maps and history paths for sensors using Leaflet, providing insightful geographic visualizations.
- Implementing real-time data updates to ensure users receive the most current aircraft information.

Roy Rosenzweig Center for New Media and History

February 2023 – June 2024

Information Technology Assistant

Fairfax, VA

- Developed a dynamic website by using the Django framework with an integrated PostgreSQL database. The resulting platform facilitates efficient monitoring of the center's website statuses.
- Developed a CI/CD pipeline leveraging Woodpecker CI, seamlessly integrated with GitHub version control systems.
- Utilized Python's automation capabilities by harnessing the power of Selenium to conduct extensive website audits, which involved employing advanced techniques for evaluating diverse web elements, thereby ensuring a comprehensive evaluation and analysis.
- Proficiently employed Docker to orchestrate and maintain multifaceted application ecosystems, encompassing critical components such as OWASP for security, Uptime Kuma for monitoring, and PostgreSQL for data management.

Projects

Project Ghost Shield | *in collaboration with the National Security Innovation Network*

In Progress

- Collaborating in a team of four to design and develop Project Ghost Shield, a low-cost geo-fencing solution aimed at enhancing aircraft and personnel survivability through GPS/PNT jamming and decoy technologies.
- Contributing to building a protective "bubble" over defined areas of operation, mitigating emerging air, surface, space, and cyberspace threats in contested environments.
- Addressing future operational challenges of air superiority for 2030 and beyond, focusing on defending against near-peer adversaries in highly contested environments.

Personal Portfolio Website | *React, TailwindCSS, Javascript*

June 2024

- Developed a retro-themed portfolio website inspired by old terminal interfaces, using React and Tailwind CSS for responsive design and dynamic functionality.
- Implemented interactive features including a puzzle, interactive map, theme-changing, and radio player, enhancing user engagement.
- Integrated an interactive chat feature that allows visitors to engage directly and learn more about my professional background and skills, creating a personalized user experience.

Motion Matrix | *Django, HTML/CSS, JavaScript, Python, Docker, SQLite, Git*

March 2024

- Engaged collaboratively in a team of five for the development of a comprehensive fitness tracking web application featuring an interactive calendar, personalized workout routines, record tracking, and an extensive library of filterable workouts
- Led the development of the workout routine page utilizing JavaScript, HTML, and CSS, while seamlessly integrating a database system using SQLite3 to store and manage user information and input efficiently.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript

Frameworks: React, Django, Express.js, Tailwind CSS, Flask

Databases: MongoDB, PostgreSQL

Other Technologies: Selenium, Chart.js, Leaflet, JavaFX, Docker, Git, Node.js