KHOI LE

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Education

George Mason University   May 2026
Bachelor of Science in Computer Science   *Fairfax, VA*

Relevant Coursework

- Software Engineering
- Full-Stack Development
- System Programming
- Low-level Programming
- Algorithm Analysis
- Data Structures
- Statistics
- 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 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

Motion Matrix | *Django, HTML, CSS, JavaScript, Python, Docker, AWS, 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.
- Orchestrated the seamless deployment on the cloud using the dynamic capabilities of Amazon Web Services (AWS).
- Leveraged the containerization technology of Docker to encapsulate the application environment, fostering efficient development workflows and facilitating consistent deployment across diverse computing environments.

Sleeper Keeper | *Express JS, Node JS, MongoDB, HTML, CSS, Javascript, React*   April 2024

- Led a team of seven to develop a sleep-tracking web application, with a customizable dashboard and personalized sleep insights, revolutionizing how users monitor and optimize their sleep habits for improved health and productivity.
- Played a pivotal role in architecting and executing the front-end interface and back-end infrastructure, encompassing the sign-in/sign-up functionality, main dashboard, and user profile, ensuring a seamless and engaging user experience from initial login to personalized profile management.
- Innovatively utilized MongoDB for robust database management, ensuring seamless storage and retrieval of user sleep data.

AI Chabot | *Django, Python, HTML, CSS, JavaScript*   January 2024

- Developed comprehensive full-stack web application by utilizing Hugging Face's open-source AI models for creating an AI chatbot.
- Implemented the backend functionality using Django and Python, integrating Hugging Face API to seamlessly incorporate powerful AI models into the chatbot for advanced natural language processing.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript
Developer Tools: VS Code, IntelliJ, Clion, Vim, Git, GitHub
Technologies/Frameworks: Django, Express JS, Node JS, Flask, MongoDB, Docker, PostgreSQL