Gabriella Green

gabriellagreen726@gmail.com | 910-506-7705
https://www.linkedin.com/in/flourtm/ | https://github.com/FlourTM/

OBJECTIVE

Creative undergraduate student with a passion for learning new technologies. I'm currently partnering with the National Security Agency on a cyber project to generate Synthetic Data for a cyber-campaign. I am seeking to utilize my skills as a software engineer in new and challenging roles.

EDUCATION

University of North Carolina at Pembroke   Pembroke, NC
Bachelor of Science in Computer Science: Cybersecurity   GPA: 3.8
Bachelor of Science in Information Technology
Expected Graduation: December 2023
Honors List: Fall 2020
Chancellor's List: Spring 2021 - Spring 2023
2022-2023 Undergraduate Information Technology Award

Computer Science Courses

CSC 2150: Discrete Structures   CSC 2650: Digital Logic
CSC 2850: Data Structures   CSC 3020: Introduction to Cybersecurity
CSC 3380: Web Programming and Security   CSC 3750: Programming Languages
CSC 4030: Introduction to Digital Forensics   CSC 4900: Advanced Software Project
CSC 2260: Operating Systems, Networking, and Security
CSC 2920: Software Development and Professional Practices
CSC 3800: Database Management Systems and Security

Mathematics and Science Courses

MAT 2100: Introduction to Statistics   MAT 2150: Calculus with Applications
MAT 2210: Calculus I   MAT 2220: Calculus II
MAT 3150: Linear Algebra I   MAT 3280: Probability and Statistics I

Other Courses

ITC 2060: Human-Computer Interaction
ITC 2080: Introduction to System Administration and Shell Scripting
CYB 4900: Cybersecurity Capstone Project

SKILLS

Web Development: HTML, CSS, JavaScript, TailwindCSS
Web Framework: Angular
Programming: TypeScript, PHP, Java, C++
Database: MySQL
Collaborative Design Tool: Figma
3D Modeling and Animation: Blender

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EXPERIENCE

University of North Carolina at Pembroke - Pembroke, NC   Aug 2023 - Present
National Security Agency/Laboratory for Analytic Sciences
Senior Design Project Collaboration (Capstone Project): *Synthetic Cyber Knowledge Graph*

- Utilized Angular to build a single page application (SPA) of the STIX 2.1 format, which allows the user to input their scenario of a cyber attack
- Converted the user input into a JSON format, sent the JSON format to the backend using HTTP methods, and displayed the synthetic data results for the cyber attack
- Conceptualized and created dynamic web pages for data display and entry using Angular
- Worked closely with backend developers to ensure proper functionality between the frontend and backend
- Briefed government stakeholders on the future development of new features, current status, and potential issues every week

University of North Carolina at Pembroke - Pembroke, NC   Feb 2023 – Present
Research Assistant

- Conducted in-depth analysis of professional and academic papers focusing on the security challenges within the Internet of Vehicles (IoV)
- Collaborated with a team of professors and students to co-author a conference paper addressing security concerns in the IoV system
- Explored the integration of blockchain technology in the IoV, evaluating its potential to enhance system security
- Investigated various authentication and intrusion detection strategies, focusing on their effectiveness and reliability within the IoV environment
- Examined network configurations and architecture for the IoV, assessing the security implications and challenges

University of North Carolina at Pembroke - Pembroke, NC   Jan 2023 - May 2023
Advanced Software Project: *Skyline Style E-Commerce*

- Initiated the design process with Figma, creating detailed mockups to visualize the website's layout and user flow
Designed a responsive user interface using HTML5 and TailwindCSS to ensure seamless navigation across both desktop and mobile devices
- Employed JavaScript and JQuery for dynamic web interactivity, enabling real-time cart modifications, theme switching, dynamic product listing, handling mock checkout functions, and executing frontend validity checks to ensure data integrity
- Utilized PHP and SQL for comprehensive user account functionalities and efficient data storage operations, supporting user registration, login, and managed both wishlists and carts, retaining user selections across sessions
- Integrated GraphQL with GraphCMS to fetch, display, and filter a diverse product catalog dynamically, enhancing the user's browsing experience
- Leveraged the Trello API to streamline the creation and management of promo codes

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University of North Carolina at Pembroke - Pembroke, NC   Jan 2023 - May 2023
Database Management and Security Project: _Recipe Saver_

- Designed a responsive web platform using HTML5 and TailwindCSS using prototypes created in Figma, ensuring an optimized experience on both desktop and mobile devices
- Utilized JavaScript and JQuery to create an interactive interface, enabling users to view comments in real-time and ensuring data integrity through frontend validity checks before submissions
- Employed PHP and SQL for backend operations, including user registration, profile management, recipe uploading, categorization, and retrieval, while enhancing user engagement through features like recipe commenting and favoriting
- Integrated filter capabilities, allowing users to easily navigate through various recipes
- Incorporated a streamlined commenting system, enhancing user engagement

TELUS International - Remote   Apr 2021 – Sep 2022
Ads Quality Rater

- Contributed to the enhancement of AI algorithms for leading search engines and advertising platforms by analyzing datasets and providing feedback according to protocol
- Utilized proprietary AI training platforms to analyze and provide feedback on a diverse range of data types, spanning multiple languages and dialects
- Evaluated the relevance and quality of search results, advertisements, and web pages against specific queries to ensure alignment with user intent
- Assessed online advertisements for content quality, layout, tone, and cultural relevance, leading to improved user experience and ad effectiveness