SARAH SANTOS

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I am a computer science undergraduate striving to break through the industry as a junior-level software engineer, data scientist, security analyst, or computer programmer.

EDUCATION

California State University, Long Beach – College of Engineering   Graduation Date: May 2024
Bachelor of Science in Computer Science   GPA: 3.6

PROJECTS

Space Surfer – Software Engineer   August 2023 - May 2024
- Developing a single-page web app facilitating seamless user access to diverse spaces, optimizing planning and utilization of public amenities and office environments for corporate employees
- Directed Agile project management as Scrum Master for my senior project team of five members, ensuring successful project deliveries through effective guidance and strategic oversight
- Implemented C# backend role-based security authorization, integrating frontend security features with ASP.NET Core and JavaScript, and employed JSON access tokens to grant authorized user role access across web page
- Designing a reservation confirmation email feature using CRUD, ensuring users' reservations are verified, and providing an interactive overview for easy integration with digital calendars

Malware in Ultima V – Software Programmer   April 2023
- Designed a Python program to inject custom payload during game execution through black-box analysis
- Studied gameplay to understand the game structure and find character statistics locations in the binary file using Ghidra hex editor
- Alternated all character statistics to maximum values by converting the given user input decimal value to hexadecimal in little-endian

WORK HISTORY

Ike's Love and Sandwiches   Long Beach, CA
Shift Leader   February 2022 – Present
- Coordinate with management to ensure customer satisfaction by fulfilling all food orders promptly
- Oversee daily operations, ensure staff adhere to policies, manage inventory, implement strategies to meet sales targets, and maintain a clean, organized environment

Chick-Fil-A   Pleasanton, CA
Advanced Team Member   September 2019 – August 2021
- Emphasize satisfactory customer service through timely ingredient restocking, precise order accuracy checks, and proactive readiness for potential increases in order volume
- Trained 12 colleagues to ensure food orders were correctly prepared, and quality of service was provided and met consistently

COURSEWORK AND SKILLS
- **Languages and Technology:** Python, Java, C/C++, C#, R, SQL, MongoDB, ASP.NET Core, JavaScript
- **Data Structures:** Designs of data structures using real-life applications in an object-oriented library
- **Algorithms:** Implementation of data structures and their structure-preserving operations via Python
- **Computer Security:** Applications of fundamentals in cryptography, information, and cybersecurity
- **Database Fundamentals:** Integration of database design and management with SQL and MongoDB
- **Machine Learning:** Utilization of ML applications, such as deep learning, through NumPy programs

EXTRACURRICULARS AND ACHIEVEMENTS
STEM Advantage Program: 2022 – 2024 ● **Women in Computing (WiC):** 2022 – 2023 ● **Society of Woman Engineers (SWE):** 2020 – 2022 ● **Presidential Honor List:** 2020-2022