

# 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**  
Bachelor of Science in Computer Science

Graduation Date: May 2024  
GPA: 3.6

## PROJECTS

### Space Surfer – Software Engineer

August 2023 - May 2024

- Developed a single-page web app for 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 implemented JSON access tokens to grant authorized user role access across web page
- Designed a reservation confirmation email feature using CRUD, ensuring users' reservations are verified, and providing an interactive overview for easy integration with digital calendars

### Peer-to-Peer Distributed Messaging Framework – Software Programmer

November 2023

- Simulated a peer-to-peer messaging system using Docker containers for isolated, reproducible, and efficient communication testing
- Implemented Docker Compose to manage multi-container applications, enabling dynamic peer-to-peer network simulations
- Developed Python scripts for messaging functionality, facilitating seamless UDP message exchange between Dockerized peer instances

## 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