

Jason Spratt

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EDUCATION

University of South Carolina College of Engineering and Computing

Columbia, SC

Bachelor of Science (B.S.) in Computer Science

Expected December 2025

- Relevant Coursework: Data Structures & Algorithms, Software Engineering, Digital Logic Design, Discrete Structures, Computer Game Development, Linux Fundamentals, Mobile Application Development, Linear Algebra, Statistics, Networking, Building Secure Software.

RELATED EXPERIENCE

University of South Carolina College of Engineering & Computing

Columbia, SC

Software Engineering

August 2023 – December 2023

- Work to apply the principles of object-oriented software design, including how to describe and model the structure of a system and apply software design patterns.
- Develop understanding of the fundamentals of requirements-based/structure-based software testing methods.
- Create software architectural models and analyze how control and data flow through a system.
- Collaborate with five peers on a semester-long group project to create a project manager app for computer science projects with the intent to keep the user on track and organized with project deadlines and goals.

Data Structures & Algorithms

January 2024 – May 2024

- Apply common algorithm design techniques such as brute force, divide-and-conquer, decrease-and-conquer, transform-and-conquer, dynamic programming, and the greedy technique.
- Analyze and use lists, trees, and graphs. Use these data structures when appropriate for a given problem.

Building Secure Software

January 2025 – May 2025

- Gained hands-on experience developing software with security best practices integrated throughout the application lifecycle.
- Learned to identify and mitigate common software vulnerabilities (e.g., buffer overflows, injection attacks, insecure cryptographic practices).
- Explored language-level, operating system, and network-based security mechanisms through case studies and programming assignments.

Personal Projects

Columbia, SC

Capstone Recipe Website

2024-2025 School Year

- Use Vue to create a recipe database website similar to mainstream recipe sites.
- Worked alongside three peers for a year-long project that included all pieces of the development cycle.
- Our project is currently private as requested by the professor, here is a link to the class' github <https://github.com/SCCapstone>

Portfolio Website

Summer 2023

- Created a job resume portfolio website, that includes email integration, networking, and personal statistics for continued updates and benefits using HTML5, CSS, JavaScript.

WORK EXPERIENCE

University of South Carolina Campus Recreation

Columbia, SC

Intramural Sports Leader

February 2023 – May 2025

- Lead crew members to provide a safe, fair, and fun environment to play intramural sports.
- Complete daily tasks such as reviewing coworkers work performance and providing instructional feedback.
- Organize marketing promotions to generate more business by improving the division's social media pages.
- Optimize team meetings to review our general goals and directions by contributing to discussions/presentations.

SKILLS

Expert (★★★★★): Java, C++, Python, HTML5, Linux/Unix

Advanced (★★★★☆): Git, JavaScript, Kotlin

Familiar (★★★☆☆): Swift, CSS3, Assembly, Prolog