

Jackson Ginn

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EDUCATION

University of South Carolina

Columbia, SC

Bachelor of Science in Computer Science, Minors in Mathematics and Business, GPA 4.0

May 2025

Awards: *Top Scholar, Honors College, President's List, SCHC Research Grant, Discover USC Best in Division*

Organizations: *Theta Tau professional engineering fraternity, Tau Beta Pi honor society, USC Chess Club*

EXPERIENCE

Software Engineering Intern

May 2023 – August 2023

Swampfox Technologies

Columbia, SC

- Designed and implemented a tool for customers to reload web certificates for Swampfox products
- Created a Java Spring backend with REST APIs to find certificates of multiple Tomcat servers with XML parsing
- Developed an elegant React frontend to display certificate information and have users easily update certificates
- Prevented costly service outages for companies' phone systems by helping keep certificates up to date

Lexical Distance Researcher

October 2021 – May 2023

University of South Carolina

Columbia, SC

- Calculated Levenshtein distance of frequently used words across languages to analyze language similarity
- Reorganized codebase to make the project more accessible to both new team members and project members without technical backgrounds
- Created a new form of data analysis that was the foundation of work presented at the Linguistic Society of America's 2023 annual meeting

Undergraduate Research Assistant

June 2022 – July 2022

Foundations of Data Science REU

Columbia, SC

- Extracted and organized a year of patient data from text files for later use in training a neural network
- Cleaned and visualized patient data using Pandas, Scipy, and Matplotlib to remove outliers, standardize data, and show metabolic trends over time
- Designed and trained a neural ordinary differential equation, which was able to predict patients' metabolic data to an accuracy of 92%

LINUX Fundamentals Teaching Assistant

January 2022 – May 2022

University of South Carolina

Columbia, SC

- Tested and proofread assignments to ensure they functioned as intended for students
- Answered students' questions when working on assignments during their class times
- Hosted office hours outside of normal class times to guide students who could not finish the assignment initially

PROJECTS

Seinfeld Line Classifier | *Python, BeautifulSoup, NLTK, Regex, Pandas, SciKit*

- Scraped text from all 180 Seinfeld scripts and parsed through it using BeautifulSoup and regex
- Cleaned the data using regex and pandas to prepare it for training a classifier
- Trained and tested a random forest and a support vector machine to predict which line came from which character

Camp Hub | *Java, Git, JSON, Agile*

- Collaborated with 4 other students to design and implement an all-in-one camp registration system
- Followed Agile design principles to plan sprints for coding according to specifications such as a UML diagram and design document
- Developed a JSON writer to store data across multiple uses of the program
- Supported three types of users with various functionalities unique to each type

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, R, HTML/CSS, C++, PostgreSQL

Developer Tools: Git, GitHub, Maven, VS Code, PyCharm, IntelliJ, Eclipse, Jupyter Notebook

Libraries/Frameworks: Spring Boot, React, pandas, NumPy, Matplotlib, BeautifulSoup, NLTK