

Bradley Grose

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EDUCATION

University of South Carolina

Bachelor of Science in Computer Science, Minor in Data Science, GPA 4.000

Columbia, SC

Aug. 2019 – May 2023

EXPERIENCE

Data Science/IT Intern

INVISTA - Koch Industries

May 2021 – Present

Lugoff, SC

- Analyzed data using a machine learning algorithm and neural network I designed to better understand improvements to chemical plants using AWS SageMaker and Python/Jupyter Notebooks.
- Automated various tasks around fiber production areas using autonomous ground vehicles to eliminate the need for manual labor, saving an estimated \$160k annually.
- Developed XR and AR functionality using Matterport and Unity to better connect factory workers to the technology and machinery through training, saving an estimated \$250k.

Tactical Software Engineering Intern

General Dynamics - Electric Boat

May 2020 – Aug. 2021

Groton, CT

- Collaborated on an agile development team to design a new thin line towed array sonar system for Virginia Class submarines.
- Programmed with C++ and Java/JavaFX to develop and improve functions and unit tests for final product to be delivered to Department of Defense.
- Developed an output stream with Java and C++ for the sailor as well as engineers to have a log tailored to them in case of errors on the submarine.

Undergraduate Teaching Assistant

University of South Carolina - Dr. Jeremiah Shephard CSCE 145/146

Aug. 2020 – June 2021

Columbia, SC

- Educated students using Java as an introduction to programming, object oriented programming, and data structure.
- Using office hours and communications with students, I was able to provide feedback with debugging and coding structures to help students develop successful labs and homework

LEADERSHIP & ORGANIZATIONAL EXPERIENCE

Theta Tau Professional Engineering Fraternity | *Professional Development Chair*

Sep. 2019 – Present

- Organized and executed professional development events to benefit all members of the fraternity
- Designed an improved alumni network database for networking opportunities over many different career fields

Tau Beta Pi Engineering Honor Society

Nov 2020 – Present

- Honor Society for Engineering and Computing Majors in the College of Engineering and Computing at USC.

TECHNICAL SKILLS & AWARDS

Languages: Python, Java, C/C++, R, JavaScript, Bash

Developer Tools: Git, AWS S3/SageMaker, VS Code, IntelliJ, Eclipse, PowerBI, OSIsoft, JIRA

Libraries: pandas, NumPy, Matplotlib, TensorFlow Keras, SkLearn, Seaborn

Awards: Presidents List, Deans List (All Semesters), Eagle Scout