

BRADLEY GROSE

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EDUCATION

UNIVERSITY OF SOUTH CAROLINA

B.S. COMPUTER SCIENCE

Minor in Data Science

Expected May 2023 | GPA: 4.00

COURSEWORK

COMPUTER SCIENCE

Algorithmic Designs I & II

Digital Logic Design

Linux/Unix Fundamentals

Computer Architecture

Advanced Programming Tech

Software Engineering

Data Structures and Algorithms

Operating Systems

Scientific Applications Programming

Introduction to Computer Networks

Programming Language Structure

MATH AND STATISTICS

Calculus I, II, Vector

Discrete Mathematics

Applied Linear Algebra and Lab

Statistics For Engineers

Probability

SKILLS

PROGRAMMING

Python (TensorFlow/Keras/SkLearn)

Java • C++ • Git • C • JSON • R

TECHNOLOGIES

Linux/Unix • GitHub • JIRA •

GitLab • Node.js • Power BI •

OSIsoft

SPOKEN LANGUAGES

English (Native)

French (Conversational)

AWARDS

- University of South Carolina President's List (All Semesters)
- University of South Carolina Dean's List (All Semesters)

WORK EXPERIENCE

DATA SCIENCE & IT INTERN

INNOVATION TEAM - PYTHON(TENSORFLOW/KERAS/SKLEARN), AWS, OSISOFT, POWER BI

May 2021 - Aug 2021, INVISTA - Koch Industries, Camden, SC

- Analyzed and programmed machine learning algorithms and neural networks using Python (Keras/TensorFlow/SkLearn/pandas) to better understand and recommend improvements for plants in Texas, South Carolina, and France through AWS SageMaker.
- Automated various functions in the Camden plants spinning processing using autonomous ground vehicles to transport materials and product, saving an expected \$160k annually.
- Developed XR and AR functionality using Matterport and Unity to better connect the factory operators with the technology and machinery around them saving over \$250k.

TACTICAL SOFTWARE ENGINEERING INTERN

VIRGINIA CLASS SUBMARINE DEPLOYABLE ARRAY TEAM - JAVA, JAVA FX, C++, RHEL LINUX

May 2020 - Aug 2020, General Dynamics - Electric Boat, Groton, CT

- Collaborated on an agile development team improving Greyhound control system for Virginia Class submarines thin line towed array sonar system as well as maintaining the prior software product.
- Programmed with C++ and Java/JavaFX to develop and improve new functions and software unit tests prior to testing the product for final Navy and Department of Defense approval.
- Main project developed was creating an output stream to interface with both the Java front-end and C++ back-end controls to produce 2 different logs, one to be displayed to a sailor on the submarine as well as developers for future code fixes.

UNDERGRADUATE TEACHING ASSISTANT

CSCE 145 & 146 - ALGORITHMIC DESIGNS I/II - JAVA, ECLIPSE IDE, INTELLIJ

August 2020 - Present, University of South Carolina, 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

PROFESSIONAL DEVELOPMENT CHAIR | THETA TAU - ZETA DELTA

Dec 2020 - Present, University of South Carolina, Columbia, SC

- Organized alumni panels, research and company dinners, weekly presentations by brothers and outside resources on varying topics, resume/career fair preparation, as well as a liaison between the fraternity and College of Engineering.

THETA TAU PROFESSIONAL FRATERNITY SEP 2019 - PRESENT

- Works to develop and maintain a high standard of professional interest among its members, and to unite them in a strong bond of fraternal fellowship.

TAU BETA PI ENGINEERING HONOR SOCIETY NOVEMBER 2020 - PRESENT

- Inducted into Tau Beta Pi South Carolina Beta Chapter as a first semester sophomore.

BSA EAGLE SCOUT | WEBB MOUNTAIN DISCOVERY ZONE EDUCATION PARK Awarded

December 2016, Monroe, CT

- Designed and constructed two outdoor classrooms for an educational park in a nature preserve. Using CAD to design tables as well as a bridge to construct the classrooms using Eco-friendly materials to help limit the environmental impact on the surrounding vernal pools.