BRADLEY GROSE

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EDUCATION

UNIVERSITY OF SOUTH CAROLINA

B.S. Computer Science
Minors in Data Science and Mathematics
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

MATH AND STATISTICS

Calculus I, II
Vector Calculus
Discrete Mathematics

SKILLS

PROGRAMMING

Java • Python • C++ • Git • C • JSON
R • JavaFX • MIPS (Assembly) •
JavaScript

TECHNOLOGIES

Linux/Unix • Microsoft Suite • GitHub
JIRA • GitLab •Node.js

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

TACTICAL SOFTWARE ENGINEERING INTERN

Virginia Class Submarine Deployable Array Team *[Java, JavaFX, 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 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.

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.

PROJECT/ORGANIZATION EXPERIENCE

BCUZ VEXU ROBOTICS *[C, C++]*, August 2019 - Present

- Developed robot control software to compete in the World Championship using an open source **C++and C** robotics operating system.
- Engineered functionality involving autonomous control, PID control systems, and our own custom libraries written in **C++** for on-board sensors for odometry.

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.