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++ • C • R • JavaFX
MIPS (Assembly) • JavaScript

TECHNOLOGIES

Linux/Unix • Microsoft Suite • Git
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)
- BSA Eagle Scout 2016

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

- Worked on an **agile development** team creating the new Greyhound control system for Virginia Class submarines thin line towed array sonar system as well as maintaining the prior software product.
- Worked 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 worked on 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

- Undergraduate TA for a section of Dr. Jeremiah Shepherd's Algorithmic Designs I and Algorithmic Designs II.
- Responsibilities consist of helping debug and trouble shoot questions for **Java** labs and homework which revolve around intro to Java, object oreinted programming, and data structures.
- Provide weekly assistance and feedback to graduate TA and students during lab sections as well as holding weekly office hours.

LEADERSHIP EXPERIENCE

PROFESSIONAL DEVELOPMENT CHAIR | Theta Tau - Zeta Delta

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

- Main Responsibility is helping brothers of Theta Tau improve their professional skills
- Helped plan alumni panels, research and company dinners, weekly presentations by brothers and outside resources on varying topics, and resume/career fair preparation.
- In addition, I work with the executive team to create professional development events for potential new members during our recruitment process, as well as a liaison between the fraternity and College of Engineering.

PROJECT/ORGANIZATION EXPERIENCE

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

- Programming robot to compete in the World Championship using PROS, an open source **C++ and C** robotics operating system.
- Created 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.