JHEAN BREARD
SOFTWARE ENGINEER INTERN

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EDUCATION

Emory University, Atlanta, GA   Expected May 2026
Bachelor of Science in Computer Science, Minor in Chinese Studies

PROJECTS

Autocomplete | *https://jheanmbreard.com/post1.html*
- Developed a dynamic autocomplete program that personalizes word recommendations based on user vocabulary, utilizing efficient data structures like tries and hash maps for recursive lookups, greatly reducing response times

Sorting | *https://jheanmbreard.com/post2.html*
- Implemented a suite of sorting algorithms (i.e. counting, radix, and shell) to visualize performance trade-offs, using Microsoft Excel to graph time complexity vs memory usage, aiding the selection of optimal algorithms

Computing in Cardiology Challenge | *https://jheanmbreard.com/post4.html*
- Designed an AI model to predict mortality rates from a 12,000-patient dataset, applying logistic regression with L1 and L2 regularization and cross-validation to achieve competitive performance against existing models

TECHNICAL SKILLS & CORE COMPETENCIES

Technical Skills: Java, C, Python, Assembly, HTML/CSS, Machine Learning

Leadership & Management	Data Analysis	Technical Communication
Software Development	Debugging & Quality Assurance	System Level Troubleshooting

WORK EXPERIENCE

Pitts Theological Library – Emory University, Atlanta, GA   Aug 2023 – Present
Circulation Assistant
- Assisted 50 students weekly in utilizing library resources (i.e. booking study rooms, locating scholarly articles, and scheduling research appointments), delivering dedicated personal support for every inquiry
- Organized and catalogued 300 books weekly using Ex Libris Alma software and the Library of Congress Classification System, streamlining operations to improve efficiency and reduce retrieval time

USS San Juan (SSN 751) – US Navy, Groton, CT
Control Systems Manager   Jan 2021 – Oct 2022
- Led a team of 10 technicians through technical qualifications, including nuclear regulatory exams and interviews with senior leadership, leading to the successful completion of 250+ maintenance tasks ahead of schedule with zero rework, ensuring operational readiness for deployment
- Built a high-performing team by empowering members to manage programs (i.e. ordering parts, scheduling maintenance) and pursue soldering training for nuclear-level quality assurance, leading to a 100% retention rate
- Executed missions vital to national security by leading a team of technicians through 2 deployments and simulating combat training for senior leadership, contributing to the submarine's top rank (1 out of 7) in 2021

Nuclear Electronics Technician   Sep 2018 – Oct 2022
- Facilitated complex diagnostic tests (i.e. nuclear instrument calibrations, software updates, response time testing), improving operational safety and compliance, and earning a ranking in the top 5% of technicians
- Streamlined standard operating procedure communication protocols and simplified its readability by collaborating with engineering leadership, eliminating inefficiencies and reducing errors by 50%
- Completed supervisor qualifications and led reactor operations for 9 out of 10 under-ways in 2021, overseeing 11 reactor startups (including 2 emergency) and 7 shutdowns, ensuring continuous plant safety