

## JHEAN BREARD

### SOFTWARE ENGINEER

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#### EDUCATION AND CERTIFICATIONS

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

*Cloud Practitioner, AI Practitioner, Solutions Architect - Associate, Amazon Web Services* Aug 2025

#### TECHNICAL SKILLS & CORE COMPETENCIES

**Technical Skills:** Python, Java, C, C#, Assembly

Leadership and Management

AI and Machine Learning

Object Oriented Programming

Cloud Computing Technology

Data Processing Pipeline

Agile Software Development

#### PROJECTS

**Raging Gambler Video Game** | <https://github.com/JMBreard/CS370-Raging-Gambler>

- Built a gambling inspired arcade game in Unity, collaborated with a 6-person team, presented weekly over a 3-month development cycle, and published a playable version on itch.io alongside a 17-page design document.

#### **Shell Program**

- Implemented a shell program in C featuring command line parsing, input and output redirection, piping, background and foreground execution, and defunct process cleanup, emulating UNIX process controls.

**Computing in Cardiology Challenge** | <https://jheanmbreard.com/post4.html>

- Created an AI model using Python's sk-learn to predict mortality rates from a 12,000-patient dataset, applying logistic regression with L1 and L2 regularization and cross-validation, matching performance of other top models.

#### WORK EXPERIENCE

**Amazon Web Services – Amazon**, Herndon, VA

Jun 2025 – Aug 2025

*Cloud Support Engineering Intern*

- Acted as a cloud support engineering intern at a Fortune 500 company, deploying cloud infrastructure projects, conducting technical labs, and completing a capstone project three weeks ahead of schedule across 10 AWS services, receiving top “raising the bar” performance.
- Designed a containerized web app that auto-scaled across availability zones, sustaining sub-3-second connection times and zero crashes, blocking all common web attacks under load tests simulating millions of users.
- Directed a team through a hack-a-thon challenge establishing communication between virtual private clouds by tracing route table connections in diagrams, solving all problems within 4 hours and winning first place.
- Prototyped a Slack ticketing system in a challenge lab, leveraging a fine-tuned LLM to automate real-time IT solutions, exercising the system with common user queries to verify correct and timely responses.
- Trained an AWS DeepRacer car using reinforcement learning, engaging in feature engineering and tuning parameters in a continuous action space to optimize acceleration, speed, and handling, placing in the top 5.
- Collaborated with 4 interns to develop a proof-of-concept AI application, integrating facial recognition with cloud storage to automate image processing, and delivering the project on time, aligned to 100% of the requirements.

**Pitts Theological Library – Emory University**, Atlanta, GA

Aug 2023 – May 2025

*Circulation Assistant*

- Advised 50 students weekly on locating materials and scheduling research appointments, supporting all inquiries.
- Cataloged 300 books weekly with Library of Congress Classification, enhancing efficiency and retrieval time.

**USS San Juan (SSN 751) – US Navy**, Groton, CT

Jan 2021 – Oct 2022

*Control Systems Manager*

- Led a team of 10 technicians through technical qualifications, including nuclear regulatory exams and interviews, and completed 250+ maintenance tasks ahead of schedule with zero rework, ensuring deployment readiness.
- Developed a high-performing team by teaching members to streamline ordering and scheduling processes while accomplishing nuclear quality assurance training in parallel, leading to a 100% retention rate.
- Executed missions vital to national security by leading a team through 2 deployments and simulating nuclear plant combat scenarios for senior leadership, contributing to USS San Juan's top rank (1 of 7 submarines) in 2021.
- Improved SOP communication protocols with leadership by simplifying readability, reducing errors by 50%.