Rhett Alan Smithgall

rhettsmithgall@gmail.com | (904) 430-3648 | Jacksonville, FL |rhettsmithgall.com

EDUCATION

University of North Florida **Jan 2026**
Bachelor of Science in Computer Science *Jacksonville, FL*
Club membership: z/OSpreys Mainframe club, Osprey Competitive Programmers (OCP)

Florida State College at Jacksonville ***Jan 2023***
Associates Degree *Jacksonville, FL*

EXPERIENCE

University of North Florida **Jan. 2025 - Jan 2026**
Teachers Assistant - Systems Programming *Jacksonville, FL*
Administrator for the project server. supporting students working in Unix System Services (USS) and Linux environments. Helped students log in, create, and submit projects.

Jan. 2025 - June 2026
Mainframe System Administrator *Jacksonville, FL*
UNF IBM Mainframe LPAR. Password resets, adding new users, and managing RACF groups. deployed PHP and Go environments in USS. Developed the "leaderboard" site on zos.ospreys.biz

PROJECTS

See online at https://github.com/RhettSmithgall

Mortgage Amortization
Developed a COBOL-based loan amortization program using JCL on IBM z/OS to calculate monthly payments, interest, principal reduction, and remaining loan balances.

JunimoBot
A reinforcement learning AI agent written in Python to beat the Stardew Valley mini game Junimo Kart. Uses the Ultralytics YOLO computer vision library and pytorch for machine learning

DDOS simulator
A multi-threaded client-server system in C using network sockets to simulate a distributed denial of service (DDOS) attack

Math Monster
A scientific calculator as a compiler-style system in Java using ANTLR, implement ing a custom grammar, parser, and Dijkstra's Shunting Yard algorithm to correctly evaluate expressions with operator precedence.
Won Faculty choice at the 2024 school of computing symposium

SIC Assembler
A 2-pass Simplified-Instructional-Computer Assembler that translates assembly code into a symbol table and then into object code. Written in C for the IBM mainframes Unix System Services (USS) environment

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** Z101, IBM z/OS Mainframe Practitioner, IBM Z Xplore - All Star
- **Programming Languages:** COBOL, JCL, REXX, C, Java, Python, SQL, JavaScript, HTML5, CSS3, Bash, MySQL, PHP, C++, C#, Assembly.
- **Mainframe Technologies:** IBM z/OS, CICS, TSO/ISPF, USS, VSAM, Db2, Zowe CLI, TN3270, Batch Processing
- **Tools & Technologies:** Git, GitHub, Visual Studio Code, GnuCOBOL, Linux, Windows, OpenCV, PyTorch