SEAN RUTH

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PROFESSIONAL SUMMARY

Software Engineer and **Full-Stack Developer** with a TS/SCI Clearance and over 12 years of experience in high-stakes operational planning and technical problem-solving. Currently completing a B.S. in Computer Science with a focus on full-stack development (Java, Python, React). Proven ability to lead cross-functional teams in distributed, pressure-cooker environments, similar to Agile operations. Seeking to leverage expertise in software development, cloud infrastructure (AWS), and system integration to deliver reliable, scalable applications as a Software Engineer.

SKILLS

TS/SCI Clearance, Java, Python, C++, SQL, JavaScript, React, NodeJs, HTML, CSS, Flask, RESTful APIs, System Integrations, NLP2SQL, Git, AWS (Lightsail/VPS), Linux (Ubuntu/CLI), Project Management, Data Analysis, Operational Planning, Networking.

TECHNICAL & SOFTWARE PROJECTS

HTTPS://GITHUB.COM/SRUTH827 || HTTPS://S-RUTH.DEV

<u>Full-Stack Web Application & IoT Infrastructure</u>

Full-Stack Development: Engineered an end-to-end web solution using **React** for the front-end and **Python/Flask** for the back-end to visualize real-time data.

Cloud & Infrastructure: Configured and deployed a production environment on **AWS LightSail (Linux)**, managing virtual server security, reverse proxies, and connectivity.

API & Database Design: Designed and managed a MySQL database and implemented **RESTful** data retrieval methods to store and display metrics from remote hardware sensors.

Feature Implementation: Integrated Natural Language Processing (NLP) to enable user-friendly data querying (NLP2SQL), simplifying complex data analysis for end-users.

<u>Embedded Systems & Hardware Prototyping</u>

C/C++ Programming: Developed custom electronic training aids using C/C++ and Arduino microcontrollers to simulate complex technical systems for personnel training.

Hardware Integration: Created bespoke technical solutions for EOD personnel, bridging the gap between hardware and software to enhance operational capabilities.

PROFESSIONAL EXPERIENCE

MASTER EXPLOSIVE ORDNANCE DISPOSAL TECHNICIAN (CHIEF PETTY OFFICER)   2012 - 2024
US NAVY   *San Diego, CA*

Leadership in Agile Environments: Led specialized 10-man cross-functional teams (attached to SEAL Team Three) on over 80 missions. Acted as lead planner, conducting daily stand-ups, operational planning, and retrospectives to ensure 100% mission success.

Systems Implementation: Spearheaded the development and deployment of a SharePoint-integrated performance tracking system. Improved data integrity and provided remote units with real-time access to critical training metrics.

Technical Diagnostics: Applied rigorous diagnostic methodologies to troubleshoot and neutralize complex explosive threats. Operated and maintained advanced robotic systems (UAV/UUV), ensuring operational readiness in field conditions.

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE   Jan 2023 - Feb 2026
National University   *San Diego, CA*

Expected Graduation: May 2026
GPA: 3.82
Relevant Coursework: Software Development, Data Structures, Algorithms, Database Management