
SEAN RUTH

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PROFESSIONAL SUMMARY

Software Engineer and Full-Stack Developer with an active **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 (GPA 3.82) with a focus on delivering reliable, scalable applications through modern web technologies and cloud infrastructure. Proven leader of cross-functional teams in high-pressure, Agile-like environments.

SKILLS

TS/SCI Clearance, Java, Python, C++, JavaScript, SQL, HTML/CSS, React, NodeJs, Flask, RESTful APIs, Git, Github Actions (CI/CD), AWS (Lightsail/VPS), Linux (Ubuntu/CLI), Reverse Proxies, System Integration, Project Management, Operational Planning, Cross-functional Team Leadership.

TECHNICAL & SOFTWARE PROJECTS

[HTTPS://GITHUB.COM/SRUTH827](https://github.com/sruth827) || [HTTPS://S-RUTH.DEV](https://s-ruth.dev)

♦ Nonprofit Web Platform | PLR Foundation

Tech Stack: React, Sanity CMS, GitHub Actions, AWS, RESTful APIs.

Architecture & Design: Architected a decoupled system utilizing a **Headless CMS** to empower non-technical stakeholders to manage content independently, significantly reducing maintenance overhead.

Content API Consumption: Developed responsive front-end components in **React** to consume content via **RESTful APIs**, ensuring a high-performance, seamless user experience.

DevOps & Automation: Engineered automated **CI/CD workflows** using **GitHub Actions** to streamline testing and deployment to **AWS**, ensuring high availability and rapid iteration cycles.

♦ Full-Stack Web Application & IoT Infrastructure | <https://sensor.s-ruth.dev>

Development: Built an end-to-end solution using **React** for the front-end and **Python/Flask** for the back-end to visualize real-time sensor data.

Infrastructure: Deployed a production environment on **AWS Lightsail** (Linux), managing virtual server security and reverse proxies.

Feature Engineering: Integrated **NLP2SQL** to enable natural language data querying, simplifying complex database analysis for end-users.

♦ Embedded Systems & Hardware Prototyping

C++ Programming: Developed custom electronic training aids using **Arduino** microcontrollers to simulate complex technical systems.

Hardware Integration: Designed bespoke technical solutions for EOD personnel, bridging the gap between hardware and software for field operations.

PROFESSIONAL EXPERIENCE

MASTER EXPLOSIVE ORDNANCE DISPOSAL TECHNICIAN (CHIEF PETTY OFFICER)
US NAVY

2012 - 2024
San Diego, CA

Agile Leadership: Led 10-man cross-functional teams (attached to SEAL Team Three) on 80+ high-stakes missions, acting as lead planner for daily stand-ups and retrospectives.

Systems Implementation: Spearheaded a **SharePoint-integrated** performance tracking system, improving data integrity and real-time access to metrics for remote units.

Technical Problem Solving: Applied rigorous diagnostic methodologies to neutralize complex threats and maintained advanced robotic systems (UAV/UUV).

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
National University

Jan 2023 - Feb 2026
San Diego, CA

Expected Graduation: April 25 2026 | GPA: 3.82

Senior Capstone: Architecting a **Smart Pantry Manager** application as full-stack system design and API integration.

Relevant Coursework: Software Development, Data Structures, Algorithms, Database Management