Will Sullivan

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Submarine officer transitioning into software engineering. Strong computer science foundation and proven experience leading technical teams and building production-ready software.

EDUCATION

University of Texas at Austin — Austin, TX
Master of Science in Computer Science - GPA: 4.0 (current) — *Jan 2025 – December 2026*
University of Notre Dame — Notre Dame, IN
Bachelor of Science in Computer Science - GPA: 3.65 — *Aug 2016 – May 2020*

EXPERIENCE

Nuclear Power Instructor — Sep 2024 – Current
Trident Training Facility — *Bangor, WA*
- Instruct submarine officers on advanced nuclear theory, water chemistry, radiological controls, and mechanical/electrical systems.

Nuclear Submarine Officer — May 2020 – Sep 2024
USS Jimmy Carter — *Bangor, WA*
- Led 68 nuclear trained sailors in the safe operation of $2.4 billion of engineering equipment and execution of three multi-million-dollar maintenance availabilities.
- Head of three nuclear divisions responsible for the operation and maintenance of steam plant and reactor plant chemistry and mechanical/electrical systems.

Research Intern — Jan 2020 – May 2020
Notre Dame Center for Research Computing — *Notre Dame, IN*
- Developed a web scraping application with python optimized for the Tor browser to collect and filter data for use in cybersecurity threat analysis.

Software Engineer Intern — May 2018 – Aug 2018
Optum, Inc. — *Eden Prairie, MN*
- Developed and implemented an automated testing framework for Optum's medical insurance department, improving test efficiency and software reliability.

PROJECTS

Git Odyssey | *TypeScript, React, Tailwind, Python, FastAPI, SQLAlchemy, PostgreSQL, OpenAI API*   GitHub Link
- Every repo has a story. Git Odyssey is an AI-first web app that allows users to interact with any GitHub repo in graph form by filtering via semantic search, asking questions about the repo, and summarizing Git objects.

Anvil | *TypeScript, React, Tailwind, Express.js, Prisma, PostgreSQL*   GitHub Link
- Web app for creating, sharing, and tracking weightlifting programs. Maintains user lift statistics and implements a progressive overload algorithm for weight progression.

RAFT Consensus | *Go, gRPC, Protobuf*   GitHub Link
- A complete implementation of the RAFT consensus algorithm designed for managing replicated state machines in a distributed key-value store. Handles leader election, log replication, node failures, and network partitions.

PUBLICATIONS

Low-Rank Adaptation Improves Adversarial Robustness in Fine-Tuned Language Models   Paper Link
- Developed and evaluated three artifact mitigation strategies (LoRA fine-tuning, ensemble debiasing, heuristic inoculation) for ELECTRA-small models under single-GPU constraints.

TECHNICAL SKILLS

Languages: TypeScript/Javascript, Python, Go, C/C++, SQL, HTML, CSS
Technologies: React, Express.js, Node.js, FastAPI, Pytorch, PostgreSQL, Prisma, SQLAlchemy, Docker, Linux, Git

LICENSES AND CERTIFICATIONS

Nuclear Engineer — Apr 2023 – Present
Naval Reactors NAVSEA 08

TS/SCI Clearance with CI Polygraph — Nov 2021 – Present
Naval Criminal Investigative Service (NCIS)