Brandon Robinson

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EDUCATION

- **Sonoma State University** — Rohnert Park, CA
  Bachelor of Science in Computer Science; Computer Science Club President; Cum Laude — Aug. 2023 – May. 2025

- **Southern New Hampshire University (Completed while Active Duty)** — Nashua, NH
  Bachelor of Science in Cybersecurity with Minor in Applied Mathematics; Summa Cum Laude — Aug. 2019 – May. 2025

- **Defining Courses**
  Quantum Computing, Automata Theory, Computer Security/Malware, Algorithm Analysis, Programming Languages

PROJECTS

- **"Make" Simulator**: C++ program that performs exactly as "make" would if a Makefile is present. Creates a binary tree and graph based on all dependencies, and executes the corresponding code if timestamps have been updated.
- **C/C++ (Like) Interpreter**: Processes and executes code for a C-like programming language using recursive descent parsing, an Abstract Syntax Tree (AST), and a symbol table for variable/function management. Executes input programs by traversing the AST, evaluating expressions in postfix notation, maintains control flow using a program counter.
- **Spanning Tree Maze Generator**: Given input dimensions, creates a graph, corresponding minimum spanning tree using Kruskals algorithm, visualizes the maze to terminal, and then solves it using a Depth First Search (DFS).

PROGRAMMING SKILLS

- **Languages (by proficiency)**: C/C++, Java, Python, SQL, Lua **Technologies**: VxWorks, Cisco IOS, VIM

EXPERIENCE

- **United States Coast Guard Training Center Petaluma** — Petaluma, CA
  Instructor/Curriculum Chief, Information Systems Technician First Class/Chief — June 2016 - August 2023
  - **Curriculum Overhaul**: Performed a top-down analysis of all apprentice level IT training and re-wrote over 40 performance objective to more closely align with Comp TIA and ACE Accreditation standards.
  - **Equipment Upgrade**: Removed, replaced, and reconfigured 20 student and instructor testing booths in the Telephone Systems lab/classrooms, totaling in over 80 pieces of equipment and 4,000 feet of cable being installed.
  - **Emergency Response**: Repaired a crippling phone trunk outage at Base Alameda that saw all personnel without access to analog, digital, or VOIP phone lines. Enabled operations to continue with less than an hour of down-time.

- **United States Coast Guard, Cutter Hickory** — Homer, AK
  Independent Duty, Information Systems Technician Second Class — October 2014 - June 2016
  - **Morale Network**: Installed, and created standardized policy for, ship-board networks on 4 different ships in the District of Alaska. Advised on engineering change panels to implement the policy across the Coast Guard.
  - **NOAA Collaboration**: Deployed sounding equipment, and compiled 3D hydro-graphic data, for NOAA to survey annual shifts in underwater channels used for safe passage through Bechevin Bay Alaska.

- **United States Coast Guard, Electronic Support Detachment** — San Diego, CA
  Shore-side Information Systems Technician Second Class — July 2013 - October 2014
  - **Tactical Team Relocation**: Decomissioned, and re-installed all network equipment for Pacific Tactical Law Enforcement Team to relocate from a newly condemned building, to a warehouse closer to Naval Base San Diego.
  - **Backup Schedule**: Implemented an automated backup schedule for all server, telephone system, and user data at the unit. Created a complimentary tracking system to perform self-audits and periodic restoration tests.

- **United States Coast Guard, Patrol Forces Southwest Asia** — Manama, Bahrain
  Shore-side Information Systems Technician Second Class — June 2012 - July 2013
  - **Kuwait Response**: Repaired IT equipment on each of the 6 ships stationed in the Persian Gulf on a regular basis. Frequently flew to Kuwait to respond to critical failure of navigation systems and internet connectivity.
  - **Windows 8 Migration**: Installed and configure over 200 Windows 8 images on to workstations, ensured all network equipment remained compatible and operational throughout migration. Managed user expectations and eased the transition, created guides for common tasks on Windows and conducted training throughout the unit.