Harley Gribble Resume

Harley Gribble (Trae)

Contact Information

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Summary

Detail-oriented Computer Science student with over 6 years of experience in the U.S. Navy as an Electronics Technician, specializing in secure communications and IT infrastructure. Currently transitioning into software engineering, with strong skills in **C++, Python**, and object-oriented programming. Seeking an opportunity to apply my software development skills in a team-oriented environment. Passionate about embedded systems, real-time software, and contributing to innovative technology solutions in defense and aerospace.

Professional Skills

- **Programming Languages**: Python, C++, Java, PHP, HTML, TensorFlow/Keras (Machine Learning), R (R Studio), SAS
- **Development Tools**: Visual Studio, Git, GitHub, R Studio, Jupyter Notebook, Google Colab
- **Technical Skills**: Object-Oriented Programming, Embedded Systems, Software Development Lifecycle, Electronics Repair, Circuit Card Repair, IT Infrastructure, Soldering, Troubleshooting, Distributed Systems, Network Security, Cloud Technologies
- **DevSecOps Tools**: Familiar with Atlassian, Gitlab, and Jenkins
- **Soft Skills**: Leadership, Communication, Cross-functional Team Collaboration, Problem-Solving, Adaptability, Logistics Management

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Work Experience

Electronics Mechanic | Navy Undersea Warfare Command

Apr 2018 - Mar 2021
- Performed depot-level electronic repair for all branches of military service.
- Conducted soldering and repair of electronics and microelectronics, from trim pumps to circuit cards.
- Engaged in obsolescence management, repairing components no longer under contract.

IT Lead Petty Officer | US Navy: Naval Hospital Bremerton

Apr 2018 - Sep 2018
- Directed the deployment and integration of MHS GENESIS, the hospital's Cerner-based electronic health record (EHR) system.
- Led cross-functional IT support teams to ensure infrastructure readiness, data migration, and network security compliance.
- Managed system testing protocols, user access controls, and optimized IT configurations to support clinical workflows.
- Provided training and technical support to hospital staff, ensuring uptime and reliability during system transition.

Electronics Technician (Submarines) | U.S. Navy: USS Miami (SSN 755), USS Buffalo (SSN 715)

Mar 2012 - Apr 2018
- Operated, maintained, and repaired satellite communications systems for secure voice and data transmission, including antennas, decouplers, cryptographic devices, routers, and switches.
- Managed and maintained Top Secret IT network infrastructure, including servers, routers, and workstations, ensuring reliable communication channels for mission-critical operations.
- Troubleshot and resolved issues in IT network equipment using Putty scripting, command line tools, and diagnostics.
- Operated and maintained multiple communication circuits, including EHF, SHF, HF, UHF, LF, VLF, and VHF communication links up to Top Secret classification.
- Conducted preventative and corrective maintenance on over 100 pieces of submarine electronics, including RADAR, intelligence equipment, and cryptologic systems.
- Led logistics and inventory management for over $1 million worth of communication and electronic equipment, ensuring all mission-essential components were available and functional.
- Maintained and repaired intelligence systems for Signal Intelligence (SIGINT) and Communication Intelligence (COMINT), contributing to the effective gathering and secure transmission of critical information.

Education

Bachelor of Science in Computer Science (In Progress)

Southern Methodist University, 2023-2026
- Completed courses include: Data Structures, Algorithms, Machine Learning, Discrete Computational Structures, Foundations of Modern Computing, Software Engineering, Embedded Systems

Fiber Optics Installer Certification

ETA International, Jan 2017

NAVSEA Solder Repair/ESD Certification

Navy Undersea Warfare Command, 2019

Submarine Communications Electronics Rating Field

U.S. Navy, Submarine School Groton, CT, Apr 2013

Tactical Computer Network Operator

U.S. Navy Submarine School Groton, CT, Oct 2012

Advanced Technical Training

U.S. Navy Submarine School Groton, CT, Aug 2012

Basic Enlisted Submarine School

U.S. Navy Submarine School Groton, CT, Jun 2012

Additional Military Training

- **Introduction to EKMS (Electronic Key Management System)**, Dec 2012
- **Common Submarine Radio Room Operation**, Feb 2013
- **AN/BPS-15H Operator**, Mar 2013
- **Electronic Sensor Measure Operator**, Mar 2013
- **Fiber Optics Maintenance Technician**, Jan 2017

Projects

Document Search and Indexing System (C++)

- **Tech Stack**: C++

- Developed a document indexing and search system using AVL trees, hash maps, and a custom query processor. Implemented features such as term frequency-inverse document frequency (TF-IDF) ranking, random search results, and index persistence. Achieved high speed and accuracy in indexing and search, with a focus on efficiency and scalability. Conducted thorough performance analysis, including corpus statistics and indexing times.

Text Classification on TensorFlow AG News Dataset

- **Tech Stack**: Python, TensorFlow

- Conducted text classification on the TensorFlow AG News dataset using sequential network architectures. Evaluated CNNs and Transformers, tuned hyperparameters, and compared model performances using metrics such as recall, precision, F1-score, and accuracy. Concluded that the GloVe-based CNN model performed best overall, with an average recall of 0.9062 and average precision of 0.9091.

Personal Portfolio Website

- **Tech Stack**: HTML, CSS, JavaScript

- Created a personal website to showcase my projects, including experience and coursework. Used JavaScript for interactive elements. Available here.

Sentiment Analysis in C++

- **Tech Stack**: C++

- Developed a sentiment analysis program in C++ to classify tweets as positive or negative. Implemented preprocessing techniques like tokenization, lowercasing, removal of special characters, and stemming using Porter2. Achieved an accuracy of 72.4% on the provided training and test data. The program efficiently manages memory, verified using Valgrind, and leverages a custom DSString class for text processing.

Certifications and Achievements

- **Navy/Marine Corps Achievement Medal** (2) for outstanding performance during deployment
- **Navy Good Conduct Medal** (2) for consistent exemplary behavior and dedication to duty
- **National Defense Service Medal**
- **Global War on Terrorism Service Medal**
- **Sea Service Deployment Ribbon**
- **Navy Unit Commendation**
- **Expeditionary Medal (Navy/Marine Corps)**
- **Expert Rifle Qualification**
- **Expert Pistol Qualification**

Additional Information

- **Security Clearance**: Previous Top Secret/SCI Clearance, eligible for Secret Clearance
- **Languages**: Spanish (conversational)
