Sean Jung

Software Engineer | Data Scientist | Active TS/SCI Clearance

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TECHNICAL SKILLS

- Python|Java|Javascript|C++|C|React|Node.js|HTML|CSS|Vue.js|Bootstrap|JUnit|PyUnit|FreeRTOS
- AWS|Azure|SQL|PyTorch|MATLAB|REST|Jupyter|sklearn|seaborn|CRUD|Django|Plotly|Linux|Fullstack
- Data Structures & Algorithms | Software Development | Machine Learning | Computer Vision | Agile & Scrum

EDUCATION

University of Washington (Seattle, WA) **M.S** – **Electrical Engineering / Data Science** – GPA: 3.9

United States Naval Academy (Annapolis, MD) **B.S** – **Naval Architecture & Ocean Engineering** – Top 25%

RELEVANT PROJECTS

SPACE WEATHER FORECASTING & HELIOANALYTICS | NASA JET PROPULSION LABORATORY

- Implemented an ETL data pipeline, consolidating 87GB+ of geomagnetic data from NASA's Solar Dynamics Observatory, SuperMAG, and OMNIWeb sources to develop space weather forecasting models and conduct impact analysis of solar events on critical U.S utility infrastructure (e.g power grid, satellites, etc.)

SEMANTIC SEGMENTATION |INT. SOCIETY FOR PHOTOGRAMMETRY AND REMOTE SENSING

- Designed and successfully implemented a FastCNN, ResUNet, and transformer-based neural network that delineates public structures through visual segmentation using digital aerial images, reaching a +85% accuracy.

HOME PRICE PREDICTOR | ZILLOW

- Deployed L1 & L2 regression models to predict housing prices, based Zillow datasets (e.g location, sq ft., lot size), and created data visualization using Plotly, Folium, & Bootstrap under Django framework with AWS EC2.

LOAN VIABILITY | LENDING CLUB

- Developed a decision tree classifier using scikit-learn to determine bank approvals for 1412 Lending Club loan applications, based an individual's loan amount, credit score, delinquency history, and 7 other features.

FOOD PRODUCT REVIEWS | AMAZON

- Created a logistics regression model using scikit-learn and seaborn to quantify and categorize the emotional sentiment of 1251 Amazon product reviews for evaluating the success of a given Amazon product.

WORK EXPERIENCE

FACILITIES ENGINEERING & ACQUISITION DIVISION DIRECTOR ……………………………. AUG 2022 – JUN 2023

US Navy | Naval Support Facility Deveselu | Deveselu, Olt, Romania

- Resolved critical facility maintenance issues involving software, electrical power distribution, HVAC, heating, and optic fiber communications for the Navy's $1.2B Aegis Ashore Missile Defense System, providing continual defense in Eastern Europe under NATO's anti-ballistic missile mission during the current Russo-Ukrainian War.

ASSISTANT PUBLIC WORKS OFFICER …………………………………………………………........... JUN 2021 – AUG 2022

US Navy | Joint Base Pearl Harbor-Hickam | Honolulu, HI, USA

- Improved the Navy's SQL database and its data management processes during Hawaii's Red Hill Fuel Contamination Crisis, significantly improving emergency response times by 34% within the crisis info cell.
- Led a team of 5 facility operations specialists in providing facility maintenance and repair to 256 military commands, successfully delivering $68.5M of infrastructure development projects.

SUPERVISORY CONSTRUCTION MANAGER ………………………………………………………. MAY 2019 – JUN 2021

US Navy | Joint Base Pearl Harbor-Hickam | Honolulu, HI, USA

- Successfully delivered a $10M SmartGrid Direct Digital Control (DDC) project, providing Building Automation Systems to 16 government facilities that allowed real-time energy oversight from a centralized server.
- Led a cross-functional team of 27 construction managers and engineering technicians in executing 155 critical infrastructure projects, valued at $450M, delivering various utility upgrades throughout the military base.

CERTIFICATES & LICENSES

Professional Engineer (PE) – State of Washington and Oregon   ID: 23014628 / ID: 99743PE

Project Management Professional (PMP) – Agile and Scrum Methodology   ID: 3012182