Sean Jung

Electrical Engineer | Data Scientist | Active TS Clearance | U.S Military Veteran
linkedin.com/in/jungshinho | (201) 528-3499 | jung2shinho@gmail.com | jung2shinho | seanjung.com

TECHNICAL SKILLS

- Python|Java|C++|C|Django|FreeRTOS|Microcontrollers|PyTorch|SQL|Javascript|React|Vue.js|JUnit
- CRUD|Jupyter|Plotly|Folium|sklearn|seaborn|AWS|Cloud|Bootstrap|Frontend|Backend|Full-Stack|Git
- OOP| Data Structures & Algorithms | Embedded Systems | Machine Learning | Software Design & Development

EDUCATION

University of Washington (Seattle, WA) **M.S** – **Electrical Engineering** / **Data Science** – GPA: 3.9 est. MAY 2024

United States Naval Academy (Annapolis, MD) **B.S with Merit** – **Naval Architecture** – Top 25% JUN 2015

PERSONAL PROJECTS

HOME PRICE PREDICTOR | ZILLOW | MACHINE LEARNING

- Developed L1 & L2 regression models to predict future housing prices based Zillow datasets (e.g location, sq ft, # of rooms, lot size, etc.), displaying data using Plotly, Folium, & Bootstrap under Django with AWS EC2.

IMAGE CLASSIFICATION | COMPUTER VISION | DEEP LEARNING

- Created a multi-layered neural network using the PyTorch library to accurately detect and label 60,000 images within the CIFAR-10 dataset, reaching a +65% test accuracy within 10 epoch training cycles.

LOAN VIABILITY | LENDING CLUB | MACHINE LEARNING

- 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 | MACHINE LEARNING

- 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.

AUTOMATED PET FOOD DISPENSER | FREERTOS | EMBEDDED SYSTEMS

- Led the 3D design and product development for an Automated Pet Food Dispenser that resulted in a functional prototype with RFID sensors, Arduino microcontrollers, and UI – programmed using FreeRTOS in C language.

WORK EXPERIENCE

FACILITIES ENGINEERING & ACQUISITION DIVISON DIRECTOR ..... AUG 2022 – JUN 2023

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

- Resolved 4 mission-critical facility issues affecting electrical power distribution, HVAC, heating, and optic fiber communications for the Navy's $1.2B Aegis Ashore Missile Defense System, providing continual defense within Eastern Europe under NATO's anti-ballistic missile mission during the ongoing Russo-Ukrainian War.

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

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

- Led a team of 5 facility operations specialists in providing facility maintenance and repair to 256 military commands, delivering $68.5M of facility maintenance and infrastructure development projects.
- 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.

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

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

- 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.
- 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.

CERTIFICATES & LICENSES

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

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