

Joseph Harkins

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21221 Oxnard Street, Canoga Park, CA 91367

EDUCATION

Bachelor of Science in Computer Science

Aug. 2016 - Dec. 2020

Minor in Mathematics

California State University, Channel Islands

Relevant Coursework: Data Structure/Program Design, Software Engineering, Analysis of Algorithms, Database Design, AI Design

TECHNICAL SKILLS

Programming Languages: Python, SQL, C++, Java, R

Analysis & Visualization Tools: MS Excel, Power Bi, Tableau

System Design & Modeling: Cameo Modeler, OPUS Modeler

WORK EXPERIENCE

Computer Scientist | NAVSEA Port Hueneme

July. 2021 - Present

- Led efforts to update data transfer and storage systems for the fleet at NSWC PHD, collaborating with contractors to identify data parameters, develop system documentation, software documentation, and system models.
- Acted as Product Owner for CBM+ predictive maintenance analysis effort, leading my team using Scrum and agile methodologies to develop an ETL pipeline for radar systems. Participated in use case, software, and system infrastructure development.
- Developed Python applications for failure trend analysis in support of the naval CBM+ effort, utilized SQL to build data queries and transform data to port over to Python applications. Developed and delivered a white paper on the process used for this project for future use.
- Conducted analysis on data sets to update maintenance requirements cards and sparing models.
- I work as part of the CBM+ architecture team, designing and implementing system and software requirements for the project

TECHNICAL PROJECTS

Capstone Senior Project - CloudKeys | Javascript, Html, Nodejs, AWS

- Created a test simulation to display how an AWS system reacts to DDoS attacks and SQL injections, modeling the results of such tests to show to company personnel
- Created a webapp password locker hosted on AWS Elastic Beanstalk using an EC2 instance based on the test sim

CERTIFICATIONS

Certified Scrum Product Owner (3/25)

Scrum Alliance

Efficient C++ Programming (6/24)

Phoenix TS