Lampson Nguyen
Software Engineer

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Introduction

Software engineer with over 5 years of experience striving to build and enhance new data related features and apps.

Fast learner willing to embrace new challenges to provide high-quality products.

Hands-on experience with data driven programming and proficient in Machine Learning model building process included data preparation, training, and testing.

Interested in projects utilizing technologies for data processing and/or solving problems.

Skillset

Software Development	DoD Clearance	Collaboratives
Follow and implement good coding practices and design.	Active Secret Clearance	Agile

Technical Skills

C#	C++	Git
Java	SQL	Bash
Python	VHDL	HTML/CSS/JavaScript
R	Matlab	Virtual Machine

Work Experiences

Senior Software Engineer Level 4 | NAVAIR | 2021 – present
- One of the core essential team members of the current development team.
- Developed a program to decode and organize military aircraft post-flight data from binary into relational database.
- Integrated Entity framework to automate data models generation on a WPF application.
- Maintained and enhanced flight data correlation.
- Implemented data validation logic at the UI level to prevent pilots from entering invalid data.
- Validated code effectiveness by updating and deploying unit testing.
- Collaborated with QA teams and end users.
- Demonstrated product to peers and end users.

Software Engineer Level 3 | NAVAIR | 2017 – 2021
- Designed and implemented UI to display flight data on a military system.
- Designed data model and implemented stored procedures in SQL Server to process aircraft post-flight data.
- Optimized UI performance and database transactions reduce loading time.
- Deployed the data processing software in Windows Service to work around from memory bottleneck issue caused by product's current framework limitation.
- Migrated multiple projects from VB.NET onto C# and refactored the code to the MVVM patterns and followed coding standards guided in Clean Code.
- Mentored interns and helped new engineers to reduce ramp-up time with the development process.

Software Engineer Level 2| NAVAIR | 2016 - 2017
- Deployed an image recognition web app that can classify types of aircraft and detect weapon types on the aircraft, by retraining InceptionV3 using TensorFlow 1.3.0.
- Designed and deployed static web pages to provide Navy's management the tools and data needed for their business, while applying Google's Material Design.
- Integrated new tools and software into Navy Commands to fulfill current use case and improve processes.
- Processed Technical Engineering documents to ensure data confidentiality before delivering to Foreign Military Customer.

Relevant Projects

Low Level Data Decoding and Data Fusion
- Process and decode binary data to structured data and manage raw data in database.
- Developed a data driven software that process binary data into relational database, utilized SQL Server and Windows Services.
- Optimizing data processing functionality and data correlation.

Machine Learning Web App
- Deployed an image recognition web app that can distinguish different types of vehicle platforms and weapon types.
- Utilized technologies including Java Servlet for backend, python's TensorFlow library for deep learning trained model, and jQuery for interactive front-end look and feel.

Business Data Dashboard
- Designed and deployed static web pages to provide Navy's management the tools and data needed for their business.

Education

California State University, Channel Islands	*Class of 2022*
Master of Science, Computer Science	
California State University, Fullerton	*Class of 2016*
Bachelor of Science, Computer Engineering	

Certification

DAWIA Engineering Level II Certification	*2020*
Defense Acquisition University	
NAVAIR On the Spot Award	*2019*
NAWCWD Performance Review	
Personal Software Process Certification	*2017*
Carnegie Mellon - Software Engineering Institute	
CSUF STEM Mentor Award	*2016*
California State University, Fullerton	