Lampson Nguyen

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# Summary

* Software engineer with over 8 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.
* Various experiences in developing different technologies and software, including Machine Learning, data driven and data management programs, front end development, embedded systems, and system software testing.
* Active DOD Secret Clearance.
* Seeking for a software development position in aerospace industry.

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| Skills & AbilitiesLanguages: C#, Python, MATLAB, R, C++, Ada, JavaWeb Development: Servlet, React, HTML, CSS, D3, JavaScript, jQueryMachine Learning Tools: Keras, ScikitLearn, TensorFlowDatabase: MySQL, SQL Server **Project/Source Management:** Git, Bitbucket, GitHub, ClearCase  **Tools:** MS TFS, JIRA, Confluence | EducationMS, Computer Science  May 2022California state University, Channel IslandsBS, Computer Engineering   May 2016California state university, Fullerton |

# Experiences

## Senior Software Engineer | Raytheon Intelligence & Space | May 2022 – Present

* Develop embedded software in Ada to ensure the resiliency of the software of a navigational system.
* Debug and troubleshoot software defects.
* Test GPS interface software via protocol MIL-STD-1553 and ARINC-429.
* Restructure requirements and redefine the requirements and documentations of a critical program.
* Verify and validate the system interfaces and data results against the requirements.
* Develop pre-test predictions, test procedure development & methods, test reporting and documentation for GPS Software tests and functional validation, using proprietary test framework and language.
* Analyze large GPS datasets with various tools to ensure the accuracy of Navigation software.

## Senior Software Engineer | NAVAIR | 2021 – Mar 2022

* Scum master and team deputy of the development team.
* Accountable for main decoder software used by flight intelligence and data analysts’ community.
* Developed a program to decode and organize military aircraft post-flight data from binary into relational database in C#.
* Integrated Entity framework to automate data models generation on a WPF application.
* Maintained and enhanced flight data correlation, utilize multi-threading to multiple large data sets.
* 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 | 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.
* Redesigned and migrated functionality of a legacy C++ software to C# with good coding standards.
* Converted multiple projects from VB.NET onto C# and refactored the code to the MVVM patterns and standards.
* Mentored interns and helped new engineers to reduce ramp-up time with the development process.

## Junior Computer Engineer | NAVAIR | 2016 - 2017

* Deployed an image recognition web app that can classify types of aircraft and detect weapon types on the aircraft.
* Designed and deployed front end to Navy's management the tools and data using Bootstrap.
* 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.

# Award and Certificate

## NAVAIR Point Mugu - On the Spot Award: 2018

## Carnegie Mellon University – Personal Software Process 2017

Defense Acquisition Workforce Improvement Act (DAWIA) Level 2 Certification