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.

Skills & Abilities

LANGUAGES: C#, Python, MATLAB, R, C++, Ada, Java
WEB DEVELOPMENT: Servlet, React, HTML, CSS, D3, JavaScript, jQuery
MACHINE LEARNING TOOLS: Keras, ScikitLearn, TensorFlow
DATABASE: MySQL, SQL Server
PROJECT/SOURCE MANAGEMENT: Git, Bitbucket, GitHub, ClearCase
TOOLS: MS TFS, JIRA, Confluence

Education

MS, COMPUTER SCIENCE   MAY 2022

CALIFORNIA STATE UNIVERSITY, CHANNEL ISLANDS

BS, COMPUTER ENGINEERING   MAY 2016

CALIFORNIA 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