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| https://lampsonnguyen.github.io/ | **Lampson Nguyen**  Software Engineer | Email: [lampsonnguyen@yahoo.com](mailto:lampsonnguyen@yahoo.com) | | | | |
| Phone: (805) 402-6754 | | | | |
| Residence: Los Angeles, California | | | | |
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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**  Follow and implement good coding practices and design. | | **DoD Clearance**  Active Secret Clearance | | **Collaboratives**  Agile | |
| **Technical Skills** | C#  Java  Python  R | | C++  SQL  VHDL  Matlab | Git  Bash  HTML/CSS/JavaScript  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**  Master of Science, Computer Science | | | | | *Class of 2022* |
| **California State University, Fullerton**  Bachelor of Science, Computer Engineering | | | | | *Class of 2016* |
| **Certification** | **DAWIA Engineering Level II Certification**  Defense Acquisition University | | | | | *2020* |
| **NAVAIR On the Spot Award**  *NAWCWD Performance Review* | | | | | *2019* |
| **Personal Software Process Certification**  Carnegie Mellon - Software Engineering Institute | | | | | *2017* |
| **CSUF STEM Mentor Award**  California State University, Fullerton | | | | | *2016* |