Qr code

Description automatically generatedLampson Nguyen

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# Summary

* 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.
* Seeking for a backend/data engineering position.

# Skills & Abilities

## Languages: C#, Python, MATLAB, R, C++

## Web Development: Servlet, React, HTML, CSS, D3, JavaScript, jQuery, Bootstrap

## Machine Learning Tools: Keras, ScikitLearn, TensorFlow

## Database: MySQL, SQL Server

**Project/Source Management:** Git, Bitbucket, GitHub, ClearCase

**Tools:** MS TFS, JIRA, Confluence

# 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.

# Education

## MS, Computer Science | May 2022 | California state University, Channel Islands

## BS, Computer Engineering | May 2016 | California state university, Fullerton

# 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