John Le

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https://github.com/jdatle

SKILLS

Java/OOP | Python | SQL | ASP | Machine Learning (TensorFlow, Pytorch, etc) | REST/SOAP | C4/Class Diagrams

TOOLS/APPLICATIONS

Android Studio
Visual Studio
PostgresSQL
SparkSQL
CLINGO
MATLAB
CATIA
AutoCAD
STAAD / FEMAP
ANSYS
MathCAD
Excel

EDUCATION

Arizona State University
Master of Computer Science
GPA: 3.81
December 2023 (Expected)

University of Washington
BS in Aeronautical & Astronautical
Minor: Mathematics
GPA: 3.25
June 2012

PROFESSIONAL SUMMARY

Aerospace Engineer / Current Grad Student with a passionate urge to make mobile apps & an extreme fascination for Machine Learning. Seeking an internship or entry level position where I can learn & develop skills to build & pursue these passions.

COMPUTER SCIENCE EXPERIENCE

Grad School Projects / Assignments | October 2020 - Present

Mobile Application Development

BMI CALCULATOR APP. (Android) - Languages used: Java, Python

- Develop MVC (Model-View-Controller) Android app. that uses REST APIs to calculate the user's BMI.
- Develop REST web services (Service on Command) APIs.
- https://github.com/Jdatle/BMI_Calc_App

HAND GESTURE PREDICTION APP. (Android) - Languages used: Java, Python

- Develop android app. that teaches, records, & predicts hands gestures using ML CNN (Convolutional Neural Network) model.
- Recorded videos are uploaded to server (local flask) where a trained CNN model is used to predict the gesture.
- https://github.com/Jdatle/HandGestureApp

Machine Learning

GLUCOSE DATA MACHINE MODEL CLASSIFIER - Languages used: Python

- Extract & Synchronize Feature Data from multiple sensors.
- Develop 3 different classifiers using decision tree classification, DBSCAN Clustering, & KMeans Clustering.
- https://github.com/Jdatle/MachineModelClassifier

DEEP LEARNING ASSIGNMENTS - Languages used: Python

- Develop non-linear multi-layer NN to train & classify MNIST dataset.
- Develop CNN to train & classify MNIST dataset.
- Develop GAN (Generative Adversarial Network) that generates MNIST images.

Databases / Structured Data Processing

MOVIE RECOMMENDATION DATABASE - Languages used: SQL, Python

- Develop python application to pull relevant data from a SQL database and simulate a distributed movie database.
- Perform query processing on partitioned data.

TAXI HOTSPOT ANALYSIS - Languages used: Scala (SparkSQL), SQL, Python

- Develop python application to perform spatial queries on large geographical & real-time location data.
- Example: Given coordinate points, locations points, & range distance. Determine all points that are both within the range of coordinate points and pairs of points that are within the distance range as well.

Amobeo | Aerospace Engineer | October 2016 - Present

Software Development

STRUCTURAL ANALYSIS TOOLS - Languages used: Python, VBA

- Develop Python scripts to organize load cases & structural properties.
- Develop Excel macros to perform structural analysis.

Individual Projects

STARCRAFT PLAYER RANKING PREDICTION - Languages used: Python

- Using player performance data, develop model to predict player ranks.
- https://github.com/Jdatle/EvilGeniusDataScienceProject

AEROSPACE EXPERIENCE

Amobeo | Aerospace Engineer | October 2016 - Present

Stress Analyst

Lockheed Martin | Aerospace Engineer | October 2012 – June 2016

Mass Properties Lead (Skunkworks, Aeronautics, Palmdale, CA, Oct. 2014 – June 2016)
Stress Analyst / Airworthiness (MFC, Lexington, KY, Oct. 2012 – Oct. 2014)