Brian Nguyen

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EDUCATION

UT DALLAS
BS in Computer Science
Expected May 2021
Cum. GPA: 3.94 / 4.00

LINKS

GitHub:// **briannoogin**
LinkedIn:// **brian-qh-nguyen**
Devpost:// **briannoogin**

COURSEWORK

Algorithms
Data Structures
Machine Learning
Linear Algebra
Computer Architecture
Statistics
C/C++ in Unix

SKILLS

PROGRAMMING

Over 2500 lines:
Java • Python • Matlab
Over 1000 lines:
C++ • JavaScript
Over 500 lines:
HTML • CSS

TECHNOLOGIES USED

Keras
TensorFlow
Scikit-Learn
Jupyter Notebooks
Google Cloud
Apache Kafka
Apache Spark
Azure
Ionic
Flask
React
Bootstrap

AWARDS

TAMUHack Best Use of ESRI API (2018)
Siemens Competition Semifinalist (2016)
Dean's List (Fall 2017, Spring 2018)

EXPERIENCE

JP MORGAN CHASE & CO | Software Engineering Intern

June 2019 – August 2019 | Plano, TX

- Developed a distributed Kafka broker load test platform to collect Prometheus metric data.
- Visualized metric data using Gaussian Mixture Models and Principal Component Analysis.
- Developed machine learning models to classify overall Kafka broker health from metric data.
- Developed with PySpark, Scikit-Learn, and Jupyter Notebook.

JACK HENRY AND ASSOCIATES | Software Engineering Intern

June 2018 – Present | Allen, TX

- Created a PoC responsive mobile app for credit union member registration with Ionic using HTML, SCSS, and TypeScript.
- Integrated driver license scanning APIs into mobile app.
- Hosted a credit reporting service on Microsoft Azure to pull credit report data into mobile app.
- Developed a REST API Load Test platform using Postman and Node.js and increased unit test coverage for web services.

RESEARCH

FAILURE-RESILIENT DNN INFERENCE FROM EDGE TO CLOUD

Advanced Networks Research Lab (ANRL)
Sept 2018 – Present

- Developed a resilient deep neural network distributed on the edge, fog, and cloud using TensorFlow and Keras.
- Developed under the mentorship of Dr. Jason Jue and collaborated with researchers from UC Berkeley.
- Project under **review for publication.**

PROJECTS

MAMMO WEB APP | Deep Learning Project

Dec 2018 – Present
https://github.com/briannoogin/GCP-Mammo-Web-App

- Deep learning project that uses transfer learning with a pre-trained InceptionNet to classify breast mammography scans.
- Trained and hosted CNN on Google Cloud Platform using Google ML Engine.
- React Web app connects to CNN via Flask REST API and supports drag and drop file functionality.

C-ASL | Computer Vision Project

Jan 2018 – May 2018 | https://github.com/Abhishaike/ASL_Translation

- Machine learning project that translates 24 characters of the ASL alphabet in real time.
- Leveraged mean-shift and color segmentation to isolate the human hand and created a CNN to classify the cropped hand. Trained CNN on a public hand dataset.
- Developed with Python, Keras, and OpenCV.