Raven Nuega

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
B.S. in Computer Engineering; ***GPA: 3.75/4.00***   *Aug 2017 – May 2020 (Transferred)*

WORK EXPERIENCE

Capital One   Richmond, VA (Remote)
Machine Learning Engineer   *Aug 2021 – Current*
- Developed internal data-intensive ML solutions, models and components regarding anomaly detection, root cause analysis, and rule-based systems.
- Supported and onboarded various use cases onto internal ML platform by designing and building out scalable and reusable POC workflows and components.
- Enabled scalabale, distributed compute on various ML components and workflows by integrating frameworks such as multiprocessing and Dask.

Data Engineer   *Aug 2020 – Aug 2021*
- Maintained and enhanced three critical data pipelines (weekly, monthly and quarterly process) that ingests auto loan data used to predict losses and loan performance.
- All three processes were written in Python/PySpark and ran on AWS EMR's. Data sources and sinks included Snowflake and S3 buckets. SQL querying was frequently used for data quality checks and data ingestion.

OXOS Medical   Atlanta, GA (Remote)
Computer Vision Consultant   *May 2020 – Aug 2020*
- Continued work on gesture recognition POC by adding hand tracking, addressing positional edge cases, and providing sufficient documentation.
- Implemented more computer vision POC's with proprietary X-ray data such as image segmentation and classification.

PROJECTS

Portfolio Website | *GitHub*
- Created a personal static website with NextJS, React, and Chakra UI. This is my first time working on front-end technologies and I had great time!
- Learned about routers, React components, Typescript, and more.

Mars Glider: Particle Filter | *GitHub*
- This project was a part of the AI for Robotics techniques course, and Mars Glider dealt with particle filter implementation. This was the most difficult, but most rewarding project and taught me the fundamentals of localization.
- The objective is to localize a glider using X number of particles, which required considerable time tuning various parameters in particle resampling and fuzzing.

Jester: Gesture Recognition | *GitHub*
- As part of my senior capstone, my team and I built a gesture recognition prototype using manually collected hand gesture data trained on 2D ConvNet on Tensorflow, and deployed on an edge Raspberry PI 3.
- The primary use case is to enable surgeons to intraoperatively navigate through medical images using only gestures. For a demo, I repurposed it to navigate currently playing songs and volume on Spotify.

SKILLS

Programming: Python, SQL, Machine Learning, ETLs, Computer Vision
Technologies: AWS (S3, EC2, EMR), Snowflake, Git, Jenkins
Frameworks: Dask, Spark, H2O, Pytorch, Tensorflow
Developer Tools: Jupyter, Conda, Pip, Splunk, Bogie, Jenkins, CI/CD
Libraries: Pandas, Numpy, Scikit-learn, XGBoost, Multiprocessing, OpenCV