Lenh Nguyen

443-946-6336 | nguyenlenh92@gmail.com

PROFESSIONAL EXPERIENCE

The Johns Hopkins University Applied Physics Laboratory **Laurel, MD**
Software Engineer July 2022 – Present

- Maintained ingestion and serviceability of the largest internal data lake that houses publicly available information such as news articles, etc.
- Spearheaded GitOps effort to build CI/CD pipelines for said data lake and its services, resulting in remarkable improvement in productivity and code quality for the team.
- Led development of data visualization tool for an internal ML capability, enabling the ML team to validate machine learning results and streamline data discovery process.
- Leveraged LLM to build a data pipeline allow automated generation of situation report of a health care crisis, directly cutting the time it'd take for the analysts to gather, process, report data from 15 hours to 3 minutes.
- Delivered an internally used report generator tool that is capable of turning actionable data into custom PPTX slide deck.
- Designed and prototyped a stylometric system that is capable of fingering authors based on the articles that they have written using embedding model from JHU HLTCOE and KNN classification algorithm, to combat the rise of disinformation and ghost-writing.
- Designed and implemented a quick search feature in a document duplication system that would allow analysts to perform real-time Jaccard Similarity search using document's content to find other similar documents collected in PAI data lake.
- Built an end-to-end ETL data pipeline that ingests video data, extracts video frames, performs OpenCV operations for processing, and offloads to S3 buckets and image detection models for training and evaluation.
- Owned UI development for a map-based system that ingests real-time live feed on medical facilities in the nation to provide swift health care.
- Lead for a web-based analyst workbench, built with the ability to harness other existing internal tools' capability for data enrichment and analysis.

Textron Systems **Hunt Valley, MD**
Software Engineering Co-op Jan 2022 – June 2022

- Worked under Cyber Security and Infrastructure Support team to support Universal Ground Control System product line with build automation and vulnerabilities remediation. Wrote scripts in Shell and PowerShell to identify, remediate, and test for vulnerabilities published by CVE database in variety of operating systems used by the UGCS product line.

EDUCATION

University of Maryland – Baltimore County (UMBC) **Baltimore, MD**
Bachelor of Science, Computer Science; GPA – 4.00 /4.00

TECHNICAL SKILLS

Programming Languages: Python, JS/TS, Shell, HTML/CSS
Technical Knowledge: Docker, Prefect, Dask, GitOps. Angular, Vue, FastAPI, Prometheus
Database: ElasticSearch, Redis, Postgres