

Lenh Nguyen

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PROFESSIONAL EXPERIENCE

The Johns Hopkins University Applied Physics Laboratory

Laurel, MD

Software Engineer

July 2022 – Present

- Engineered a map-based system that ingests real-time data feed from medical facilities across United States to provide swift and actionable healthcare.
- Maintained ingestion and serviceability for an internal data lake.
- Designed and prototyped a stylometric system capable of fingerprinting and attributing authorship from literary style to combat the rise of disinformation and ghost-writing.
- Spearheaded GitOps initiatives to develop CI/CD pipelines for data lake and its services, significantly enhancing productivity and code quality.
- Led development of an in-house data visualization tool, empowering our ML team to validate results and streamline data discovery.
- Leveraged large language model to streamline healthcare crisis situation reporting, slashing data collection and processing time from 15 hours to 3 minutes.
- Constructed a comprehensive ETL data pipeline to ingest, process, and store video data. Integrated with remote storage and image detection models for training and evaluation.

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.
- Developed scripts 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

Dual Track: Cybersecurity & Data Science

Relevant Coursework: Algorithms, Database Management System, Networking, Software Engineering, Operating System, Artificial Intelligence, Computer Security.

President's List

TECHNICAL SKILLS

Programming Languages: Python, JS/TS, Shell, HTML, CSS.

Technical Knowledge: Docker, Prefect, Dask, GitOps, Angular, Vue, FastAPI, Prometheus, Web scraping, ElasticSearch, Redis, Postgres, Kafka, MinIO.

PERSONAL PROJECTS

Covid Tracker

Flask, React.js, PostgreSQL

- Architected and developed a map-based application that allows users to view COVID statistics such as positive cases, deaths, vaccination progress for state and county across United States.
- Maintained data ingestion by applying web scraping method on reputable data sources such as the CDC.
- Utilized using Google Cloud, Firebase, and GitHub Actions for continuous integration and deployment.