# 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](https://www.textronsystems.com/products/universal-ground-control-station) 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, AWS

* 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.
* Maintained an automated integration and deployment pipeline to Cloud infrastructure using GitHub Actions.