# Lenh Nguyen

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**PROFESSIONAL EXPERIENCE**

**The Johns Hopkins University Applied Physics Laboratory Laurel, MD**

Fullstack Software Engineer July 2022 – Present

RITCA – FastAPI, Vue, Redis, ElasticSearch, Kafka

* Developed web application that processes real-time data stream from over 7000 medical facilities across the United States using Vue, enabling swift and critical healthcare interventions during mass casualty incidents.
* Spearheaded the initiative for state management using TanStack Query, enabling optimistic mutation, client-side caching, deduplicating requests, and most importantly, pull-based state synchronization with backend.
* Optimized latency of crucial payload on application startup using a combination of gzip, faster JSON serializer, single validation on data, server-side caching using Redis.

IEDV – FastAPI, Angular, Postgres, OpenAPI

* Designed and built browser-based common operating picture application that would allow analysts and decision makers in the information operation space to build analytics dashboard with real-time streaming data from third party sources.

Coherence – FastAPI, Angular, ElasticSearch, RabbitMQ

* Developed RAG-based tool suite that enables Q&A, generative summaries, unsupervised document headline clustering, embedded vector query over documents at scale.

Cobalt – FastAPI, Angular, ElasticSearch, MinIO/S3, Kafka

* Maintained a translation service internally used by analysts and developers at APL.
* Streamlined a system to ingest and enrich text and image data from various data sources using open-source AI/ML algorithms and models. Supported numerous teams and projects across APL with this enriched data lake via Kafka streams, API, analytics interfaces.
* Spearheaded GitOps initiatives to deploy rigorous CI/CD pipelines, resulting in 80% reduction in deployment time, enhanced code quality, team efficiency.

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**Textron Systems Hunt Valley, MD**

Software Engineering Co-op Jan 2022 – June 2022

* Automated build for Universal Ground Control System (UGCS) product line using Jenkins.
* Developed scripts to identify, remediate, and test for vulnerabilities published by CVE database in variety of operating systems used by the UGCS.

**EDUCATION**

**University of Maryland** – **Baltimore County (UMBC) Baltimore, MD**

Bachelor of Science, Computer Science; GPA – 4.00 /4.00 August 2018 – May 2022

**Dual Track**: Cybersecurity & Data Science

**TECHNICAL SKILLS**

**Programming Languages:** Python, JavaScript/TypeScript, Shell.

**Technical Knowledge**: Docker, Kubernetes, Git, CI/CD, Angular, Vue, Prefect, Celery, FastAPI, Prometheus, ElasticSearch, Redis, MinIO, Kafka, RabbitMQ.