Namkhang Le

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Education

GEORGIA INSTITUTE OF TECHNOLOGY *August 2021 – May 2025*
B.S. Computer Science, concentrations in Intelligence (AI/ML) and Information Internetworks 4.0/4.0 GPA
Relevant Coursework: Data Structures & Algorithms, Artificial Intelligence, Design & Analysis of Algorithms, Computer Organization & Programming, Probability & Statistics, Combinatorics, Linear Algebra, Computer Systems & Networks, Database Systems

Experience

CITI Tampa, FL
Software Engineer Intern *June 2023 – August 2023*
- Spearheaded Event Master Central, a full stack application for real-time corporate action event monitoring of financial assets in Angular & Oracle Database increasing engineering awareness of deployment failures by 18%.
- Revamped authentication logic, fortifying API token validation for REST API calls, contributing an 85% uptime to production.
- Orchestrated seamless integration with Institutional Services Group's Cloud services using Spring Boot, optimizing performance through JSON-based HTTP requests, and enhancing overall efficiency by 15% across the application.
- Leveraged 2 Python's Pandas DataFrame to analyze surface temperatures vs global domestic product, resulting in a 0.8 positive correlation within Tableau in support of Citi's 1 trillion dollar commitment to sustainable finance.

LOCKHEED MARTIN Manassas, VA
Software Engineer Intern *May 2022 – August 2022*
- Trained a wildfire-based infrastructure identification AI model through Kubeflow, Pytorch, & Tensorflow, with 98% accuracy.
- Implemented a real-time data monitoring interface in Spring, driving a 20% increase in operator awareness & object tracking.
- Transformed codebase maintainability by converting logging levels from Apache Log4J to SLF4J, achieving 80% code coverage.
- Collaborated with quality analysis team to execute comprehensive testing, resulting in a 12% reduction in logging inefficiencies.

IDAHO NATIONAL LABORATORY Idaho Falls, ID
Digital Animation Intern *June 2021 – May 2022*
- Championed the creation of 100 animations, capitalizing on a 20% acceleration in midcareer transitions for nuclear engineers.
- Coordinated the production of over 10,000 digital frames for the generation of nuclear energy educational simulations.
- Drove cross-functional collaboration, working seamlessly with 10 designers and engineers for training material production.

Projects

Georgia Tech Computer Science Capstone Project | *JavaScript, ReactJS, MongoDB, ExpressJS, NodeJS* *August 2023 – Present*
- Developed a Hemodynamics Calculator, a full-stack application for the Emory University School of Medicine, to be used by 10 clinicians to reduce measurement error daily, impacting over 1,000 patients within the intensive care unit.
- Leveraged ReactJS, Express, and MongoDB to develop user-friendly interactive visualizations of trends in patient data and a reduction in data-related errors by 34%.

DiagnoseMe (Hackalytics Hackathon) | *OpenAI ChatGPT, Google's Gemini, ElectronJS, Flask, ReactJS,* *February 2024 – Present*
- Constructed a ChatGPT powered ElectronJS application for disease diagnosis supporting medical students and doctors in training.
- Streamlined user experience by creating 120 unique prompt-engineered scenarios through Pandas DataFrame consolidation.
- Achieved a 15% reduction in development time through REST APIs for seamless data exchange via JSON between React & Flask.

ScribbleTex (AI ATL Hackathon GitHub Winner) | *JavaScript, Google Cloud Platform, VertexAI, Flask, ReactJS* *November 2023*
- Preprocessed 3 datasets comprising over 200,000 samples for the training of a custom machine learning model Scikit-learn.
- Developed a decision tree classifier and a convolutional neural network using Keras achieving a 97% translation accuracy.
- Implemented a React-base frontend built using HTML, CSS, and JavaScript connected to a Python Flask backend with Rest API endpoints for optimized communication with the CNN model hosted on Google Cloud's Vertex AI platform.

MorseTorch (HackGT Hackathon) | *Swift, Python, Pandas, Jupyter Notebook, XCode, CoreML, Torch, Carthage* *October 2023*
- Employed Swift-based iOS application for Morse code translation, integrating Torch and Carthage binary framework.
- Executed K-means clustering algorithm using CoreML enabling real-time translation of optical signals with a 75% accuracy rate.

Skills

Programming Languages: Java, Python, C, SQL, JavaScript, CSS, HTML, Unified Modeling Language, C#, R, Swift, LaTeX
Technologies: Spring Boot, Angular, Android Studio, Bootstrap, RESTful APIs, Gradle, Pandas, Postman, React, Linux
Software Development: Agile, Jira, CI/CD, DevSecOps, CLI, Confluence, Coverity, Jenkins, Artifactory, Unit Test, Git
Spoken Languages: English (Native), Vietnamese (Fluent), Spanish (Limited Working Proficiency)
Affiliations: Google Student Developer (Technical Lead), Competitive Programming, Mentor Jackets, Student Alumni Association