Le Anh Nguyen

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Education

Truman State University | Kirksville, MO *May 2025*
Bachelor of Science in Computer Science, Minor in Mathematics *GPA: 4.00/4.00*
- **Relevant courses:** Object-Oriented Programming, Data Structures, and Algorithms, Advanced Algorithms, System Programming, Linear Algebra, Discrete Mathematics, Mathematics for Finance

Skills

- **Programming:** Python, Csharp, Java, C++, JavaScript, HTML, CSS, R
- **Libraries:** Keras, Tensorflow, Numpy, Pandas, Matplotlib, huggingface/transformers
- **Frameworks**: Bootstrap, ReactJS, NodeJS, ASP.NET MVC, R Shiny, Docker, Tailwind CSS
- **Database:** MySQL, MongoDB, Firebase

Experiences

Washington University School of Medicine in St. Louis: Visiting Program Trainee *May 2023 — August 2023*
- Developed a user-friendly web portal, enabling non-computational users to efficiently query large datasets, generate insightful visualizations, and perform statistical analysis on Acute myeloid leukemia.
- Implemented database updates and optimizations to reduce the website's query response time for DNA sequencing data, enabling insightful inspection and retrieval of large-scale genomic information.
- Designed efficient Workflow Description Language (WDL) pipelines that integrate the DRAGEN platform into Washington University's high-performance computing infrastructure, reducing human genome processing time from 24 hours to under 30 minutes.

Hinet: Software Engineer Intern *May 2022 — August 2022*
- Participated in developing a national E-commerce trading floor using Csharp and Asp.Net MVC 5 framework.
- Created a page for sellers to upload, modify and delete their products from the database.
- Pulled information from the database to make sliders recommending similar popular items based on reviews and showing previously viewed products for display on the client's side.
- Collaborated with 4 other interns to design a Saigon Food tour page for over 10 million tourists annually.
- Built an administrator page from scratch for the state to upload tourist spots' data including name, description, price range, category, latitude, longitude, and images.

Admicro — VCCorp: Natural Language Processing Apprenticeship *January 2021 — July 2021*
- Applied classical ML models including Linear Regression, Logistic Regression, and Support Vector Machine for sentiment analysis.
- Optimized a Language Modeling n-gram Noisy Channel model for Vietnamese words autocorrection.
- Finetuned huggingface's PhoBert model for sequence classification to separate news documents into 20 categories with a validation accuracy of 0.71.

Projects

Animegram: NextJS, TailwindCSS, Firebase, Recoil, NextAuth *June 2022*
- Built a fully functional Instagram clone for anime enthusiasts using NextJS and Recoil as a state management tool.
- Deployed a special tag feature for users to follow the latest anime and find suggestions for similar animes.
- Implemented custom authentication screen using NextAuth and utilized Firebase v9 for database and image upload.

Stock price prediction: Sklearn, Matplotlib, Numpy, Pandas *February 2022*
- Utilized the exponential moving average (EMA) method to forecast Bitcoin data due to its unpredictability.
- Formulated a buy and sell algorithm that made $120,000 from a fund of $1000 over a 4-year period (2016 - 2020).

Face Mask Detector: Tensorflow, Keras, Matplotlib *December 2021*
- Built a face mask detector using the EfficientNetB0 classifier and got over 95% accuracy.
- Designed an algorithm that can measure the relative distance between people.

Technology forum: HTML, CSS, JavaScript *July 2019*
- Developed a website for technology lovers where they can sign up to get updated on the latest information, upload their own content, and debate with others.

Relevant Coursework – Awards

- Top 6 Regional Missouri Math Collegiate Competition
- Coursera Andrew Ng's Machine Learning Certificate
- Coding Camp at MindX Hanoi