

Ngoc-Han (Jackie) Nguyen

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EDUCATION

Bachelors of Science, Computer Science

University of Washington – Seattle, WA

Yonsei University – Seoul, South Korea

Sep 2020 – Jun 2024

Dean's List – GPA: 3.71

PROJECTS

NLP Research Reproduction Capstone | Python | Project Manager

Mar – May 2024

- Verified the results of an NLP research within 3% of the NER F1 scores for low-resources languages that utilize various re-initialization techniques and extended the findings to languages not originally tested
- Conducted comprehensive analysis and experimentation with XLM-R baselines, implementing various embedding replacement strategies to evaluate efficiency gains in multilingual model performance
- Managed data acquisition, adapted computational strategies to align with resource constraints, and contributed to the development and optimization of models

Anime Recommender | Python, Flask, HTML, CSS

Jul – Sep 2023

- Developed a program in Python to analyze over 14,000 anime data points and recommend anime using content-based recommending and collaborative filtering algorithms
- Applied cosine similarity analysis to measure the degrees of difference between the features of anime to be recommended in comparison to the anime's averaged features
- Produced a web application using Flask and designed using HTML/CSS to streamline the user experience

Mini-Google | C, C++

Sep – Dec 2022

- Created a scalable search engine, initially designed for local queries, later enhanced for internet accessibility by efficiently indexing files from disk
- Designed and implemented advanced data structures for optimal information storage and retrieval, along with a protocol-driven approach to web application development
- Employed C and C++, applying advanced programming idioms to ensure high-performance and maintainability of the system

Campus Map Path Finder | Java, JavaScript, TypeScript, React

May 2022

- Designed user-friendly UI using React and NodeJS for an interactive map to visually display the shortest valid pathway between two buildings at the University of Washington
- Utilized Dijkstra's algorithm and creation of a graph data structure in Java to calculate the least-cost path
- Implemented a Spark Java server to handle backend requests, ensuring efficient connections across stack

WORK EXPERIENCE

IT Intern

Jun – Aug 2023

Lavner Education

Seattle, WA

- Assisted with troubleshooting and resolving technical issues for computer systems, software applications, and network infrastructure
- Supported system administrators with tasks such as user account management, system backups, software installations, and configuration management
- Delivered quality, educational instruction to students in either a class or one-on-one environment

Manager

Jun 2021 – Jun 2023

Sharetea

Seattle, WA

- Guided the optimization of store processes and logistics, improving efficiency and customer satisfaction
- Directed a team of employees and conducted comprehensive training for new hires
- Handled key customer and business interactions, focused on resolving complex issues

SKILLS

Languages: Java, Python, C, C++, C#, HTML, CSS, JavaScript, Lua, SQL

Developer Tools: Git, VS Code, PyCharm, IntelliJ, Vim, Tableau, React, JUnit, JavaDoc

Relevant Coursework: Software Design and Implementation, Hardware/Software Interface, Intro to AI, Natural Language Processing, Computer Vision, Computer Graphics, Computer Networks, Distributed Systems