

HIEU QUACH (JESSIE)

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PROFILE

Passionate and curious teamplayer with profound Web Development and Object-Oriented Programming (Java, Python, C#, etc) insight and experience in Machine Learning (CNN, RNN, Gen AI, etc), and Database; actively pursuing full time opportunities to help building powerful technology that innovate human life

EDUCATION

Bachelor of Science, Computer Science, GPA 3.95/4.00

March 2024

Minor: Economics

Knox College, Galesburg, IL

COMPUTER SCIENCE EXPERIENCE

Developer Intern, Filter Folder, LLC, Dover, DE

May 2024 - Current

- Work in Startup team with Agile setup to launch smart folder filtering product as better way to manage electronic files
- Ensure the responsiveness of the UI for both desktop and mobile versions to for users' best experience
- Utilize K-mean clustering algorithm to create a customized algorithm that can optimize the files grouping process

Software Developer Intern, FPT USA CORP, Houston, TX

April 2024 - July 2024

- Handled full-stack project for website apps using MERN stack & RESTful API design and ensure quality of product by always keeping updated with new technology
- Got to know about how to build a web app with ASP.NET Core and a relational database backend (SQLite/SQL Server)
- Leveraged cloud platforms (AWS, Azure) to deploy & scale website infrastructure for high availability and performance

Web Developer Intern, East West Center, Honolulu, HI

December 2023 - March 2024

- Developed engaging and appealing web pages to facilitate virtual exhibition showcasing Palau's storyboard art
- Devised systematic workflow for the websites to uphold user-friendly experience and improve runtime efficiency

Web Developer, Knox College, Galesburg, IL

August 2022 - March 2023

- Built ReactJS interface for touchscreen monitor, linked to NMR instrument, to provide insight of instrument operations
- Learned and applied online knowledge of Raspberry Pi in enabling real-time control of NMR instrument LED lights via display to allow interactive experience

RESEARCH

UI Design Lead

Summer 2022

Knox Graph Database - KNOXalotl, Knox College, Galesburg, IL

- Spearheaded design of website using Figma to bring user-friendly interface by investigating important use cases and came up with revolutionary features
- Organized web pages and distributed features between different page to avoid overloading in user tasks
- Incorporated with front-end lead on Github project to help in building website using React JS and gave suggestion to database lead in improving data organization on Neo4j for faster performance in queries

Undergraduate Researcher

Cloud Computing: A Different Kind of Heterogeneity, Knox College, Galesburg, IL

Summer 2022

- Studied and researched deeply into Cloud Computing Heterogeneity to form presentation for Summer Science Seminar and as part of college teaching module
- Leveraged insights from open-source research about sketch recognition using neural networks and deep learning on big data combined with the use of Google Cloud Platform to formulate interesting and practical assignments

COMPUTER SCIENCE PROJECT

Benkyo, a Start-Up product meticulously designed as a Google Chrome Extension to empower users with suite of productivity-enhancing tools to facilitate focus and efficiency during work or study sessions

English-Vietnamese Translation, a Jupyter project that fine-tunes a LLM from Hugging Face with a new dataset to handle translation task from English to Vietnamese with the use of Pytorch and Tensorflow

Pacman Master, a Python project executed to resemble layout of iconic Pacman Game which serves as a robust testing ground to learn about how agent's learning processes get impacted by a spectrum of algorithms: ranging from fundamental techniques such as BFS and DFS to advanced approaches like Reinforcement Learning