Anthony Pham

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EDUCATION

Master's in Computer Science   Expected: May 2026
University of Arkansas, Fayetteville, AR

Bachelor of Science in Computer Science   Expected: May 2024
Minor in Mathematics   Acquired: Fall 2021
University of Arkansas, Fayetteville, AR | 4.0 GPA | Honors College Fellow

EXPERIENCE

Nuqleous Retail Analytics   May 2022 – May 2024
Software Development/Data Engineering Intern
- Expanded the ETL process used by 250+ customers with 10,000+ data points daily by building upon the data loading process using **C#/.NET**, **Python**, and **Azure Functions,** creating two new data connectors
- Developed **SQL** scripts and **stored procedures** for **SQL Server**, **Exasol**, and **Snowflake** to automate tedious manual tasks and mitigate room for human error, cumulatively saving hours of work every single week
- Managed daily operations through analysis of **SQL** queries and monitoring processes through **Airflow DAG's**
- Maintained effective communication across product teams in a fast-paced **agile/scrum** environment, ensuring transparency and general awareness
- Worked over 50 bi-weekly on-call weekends, entailing monitoring of system health, updates of system status, and prompt debugging of any system errors
- Collaborated with the customer support team, cumulatively handling 50+ customer tickets with prompt debugging of system-wide code and database analysis

ENGINEERING PROJECTS

Personal Portfolio Website *(phamofanthony.com)*   Spring 2024
- Developed the portfolio in **Python** using **Streamlit**, showcasing detailed information about background and credentials as well as video demos of projects
- Host the website through containerizing in **Docker** and deploying on **Kubernetes** through **Google Cloud**

Nuqleous Spotlight Status Slack Bot   Spring 2024
- Integrated an service level agreement (SLA) analysis page into the existing **Streamlit** application to provide prompt analytics on customers completing data loads by their established SLA times allowing the customer success team to maintain awareness of customer satisfaction

Nuqleous Spotlight Status Slack Bot   Spring 2023
- Created a bot in **Python** that continually runs in an **Airflow DAG** and uses the Slack **API** to provide hourly statistics of system health with data pulled live from **PostgreSQL** and **Snowflake**
- Added functionality to directly update other **Airflow DAG's** from the **data pipeline** to reset tasks and resolve errors simply through reacting to messages from the bot, removing the need to access the **Airflow** website from a computer while on a VPN
- Saves the operations team from writing updates allows them to work on other projects or enjoy their weekends while on-call

Capstone Matching Web Application   Fall 2023
- Architected a web application using the **Django** framework and a specialized algorithm in **Python** with **OR-Tools** to streamline the Capstone matching process for the University of Arkansas, combining all instructor, sponsor, and student interactions into one hub to save instructors 10+ hours of time per department
- Improved upon previous years' matching satisfaction results by 12% using the new matching algorithm

Food Map Mobile Application   Fall 2022
- Engineered an **Android** application using **Kotlin** and **NoSQL** that creates a social network where users can share local food reviews with useful metrics like review, price point, overall rating, and photos and visually display them on a map with pins
- Updated the **Firebase NoSQL** database through **REST API** calls

UARK Campus Navigation Program   Fall 2022
- Designed a campus routing application in **C++** that generates the most efficient route between buildings to help users traverse campus via efficient searching and sorting algorithms

Bridge Crossing Simulation   Spring 2022
- Programmed a bridge crossing simulation in **C** using **Pthreads** that executed crossings in accordance to set constraints, solidifying understanding of **multi-threaded** concepts like locks and mutexes

TECHNICAL SKILLS

- Front-End: Blazor, Telerik, React, HTML/CSS, NPM, Yarn, Streamlit
- Back-End: Django, .NET, Node.js, SQL Server, Exasol, Snowflake, PostgreSQL, NoSQL
- Languages: Python, C#, C++, C, Java, Kotlin, JavaScript, SQL
- Tools: Git, Azure, Docker, Kubernetes, Postman, Fiddler Everywhere, Airflow, Visual Studio, DbVisualizer, Netlify, MicroStrategy, Microsoft Office