

Anthony Pham

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EDUCATION

Bachelor of Science in Computer Science

Minor in Mathematics

University of Arkansas, Fayetteville, AR | 4.0 GPA | Honors College Fellow

Expected: May 2024

Acquired: Fall 2021

EXPERIENCE

Nucleous Retail Analytics

Software Development Intern

May 2022 – Present

- Streamline the data loading process for 250+ customers that manages the 10,000+ data points daily through continually building upon the data **pipeline** in **C#** and **Python** that are based primarily in the **.NET framework** and **Azure**
- Develop **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
- Manage daily operations through analysis of **SQL** queries and monitoring processes through **Airflow DAG's**
- Maintain effective communication across product teams in a fast-paced **agile** environment, ensuring transparency and general awareness
- Work bi-weekly on-call weekends, entailing monitoring of system health, updates of system status, and prompt debugging of any system errors
- Created 10 workflow tools and general bug fixes for the Shelf-IQ product team in **C#** and the **Telerik** UI library, contributing to their long-term feature set and enabling customers to save time from repeating tedious tasks
- Collaborated with the customer support team, cumulatively handling 100+ customer tickets with prompt debugging of system-wide code and database analysis
- Participated actively in weekly customer meetings, gaining valuable insights into the software's real world impact

ENGINEERING PROJECTS

Personal Portfolio Website (phamofanthony.com)

Spring 2023

- Developed a personal portfolio in **React** using **JavaScript/Node.js** and **HTML/CSS** displaying personal skills, projects in greater detail, extensive academic/professional experience, and information about my personal interests and hobbies
- Hosted the website through purchasing a domain and configuring the **DNS** settings to point towards **Netlify** which hosts the **React** app

Nucleous 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

Nucleous Automated Customer Setup

Summer 2023

- Integrated a new customer setup webpage using **C#/.NET** for the customer support team, optimizing new customer setup and reducing setup time from 20 minutes to 5 minutes
- Stylized the page using the **Blazor** framework for **.NET** paired with **HTML** and **CSS**
- Utilized the **Rest API** to access internal API's and that of **MicroStrategy**

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
- Back-End: Django, .NET, Node.js, SQL Server, Exasol, Snowflake, PostgreSQL, NoSQL
- Languages: Python, C#, C++, C, Java, Kotlin, JavaScript, SQL
- Tools: Azure, Airflow, Git, Visual Studio, DbVisualizer, Postman, Fiddler Everywhere, Netlify, MicroStrategy, Microsoft Office