Huong (Hannah) Pham

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EDUCATION

Master of Science in Computer Science, Software Engineering Concentration **Graduated Dec 2022**
The University of Texas, San Antonio | GPA: 3.66

Bachelor of Science in Computer Science **Graduated Dec 2018**
The Catholic University of America, Washington, D.C. | GPA: 3.45

EXPERIENCE

Graduate Teaching Assistant **Jan 2022 - May 2022**
The University of Texas at San Antonio San Antonio, TX

- Worked closely with professor to grade undergraduate students' homework and programming assignments (**Java**, **Maven** and **SQLite**) for database systems course.
- Hosted weekly office hours to give feedbacks on their mistakes and assist students to improve their performances.

Space Planning Analyst for Stop&Shop Supermarket Company **Feb 2019 - Jul 2021**
SAS Retail Services LLC Quincy, MA

- Performed data analysis on the sales performances using **Excel PivotTable** to obtain insights into customers' preferences.
- Collaborated with Health & Personal Care category team to build new product assortments on **JDA/BlueYonder.**
- Built automation scripts to optimize item inventory for over 410 Stop&Shop stores across 6 New England states.
- Assisted lead analyst in training new hires to get on board with the merchandising reset workflow and the team.

IT Technician **Aug 2018 - Dec 2018**
The Catholic University of America - Technology Services Help Desk Washington, D.C.

- Provided university faculties with solutions to technical issues in classrooms or in department offices in a timely manner.
- Resolved login issues and provided password reset instructions for hundreds of network users including faculties, students, and alumni.
- Carried out other projects including schedule planning and inventory database management using **Google Spreadsheet.**
  - Accomplishment: Promoted to manager account after 3 months of working at the Help Desk.

Student Assistant **Jun 2018 - Aug 2018**
The Catholic University of America - University Advancement Washington, D.C.

- Handled thousands of duplicate alumni records resulting from a database migration by merging the duplicates in order to cut down the used space in the database as well as to prevent possible data loss during the merging process
- Performed data cleansing on the records after merge by detecting and removing the inaccurate or unnecessary data when checking the alumni records
- Project: Constituent Merge in Raiser's Edge
  - Accomplishment: Found a short-cut merge tool that made a tedious process become quick and easy, which accelerated the completion time of the whole project from 8 weeks to 6 weeks.

PROJECTS

BookwormAI | *An OpenAI-based Web Application* **Mar 2023 - Present**

- Integrated **OpenAI API** into a **Python Flask** web application that handles HTTP POST requests from users and responses with the bite-size summaries of book titles given from user input data.
- Built a basic user interface design with **HTML, CSS,** and **jinja2** template.
- Implemented automated testing with **PyTest**
- Enforced bug and clean code checker with **PyLint** through **GitHub Actions**.

Grocery REST API | *A Flask RESTful API* **Nov 2022 - Mar 2023**

- Built the **Python-based** REST API with **Flask** and **Flask-Smorest**
- Implemented ORM models with **SQLAlchemy**
- Used **Postman** and **swagger-ui** for API testing.

WebWeather | *GitHub* | *Website* **Sept 2022 - Dec 2022**

- Built the backend of the web application using **Python** and **Flask** to handle **HTTP requests** from **WeatherAPI** calls.
- Designed the frontend of the web application with **HTML** and **CSS.**
- Set up **NoSQL** tables in **Google Cloud Firestore datastore** for statistical data.
- Hosted the web application using **Google Cloud AppEngine.**

Autonomous Car with Object Detection | *IEEE Publication* **Sept 2017 - May 2018**

- Developed an autonomous car with capability of lane following using ML libraries like **tensorflow, numpy, pandas, opencv** and 2 neural networks (**CNN** and **DNN**) trained to map the raw images to steering and speed command.
- Implemented **Haar classifier** and **monocular vision** to detect STOP sign, and a **sensor** to detect an obstacle.

TECHNICAL SKILLS

- Java, Python, C, HTML, CSS, JavaScript
- Flask, Junit, Bootstrap
- Docker, Git, GitHub, Linux, Postman
- REST, YAML, XML, JSON
- GCP (IAM, AppEngine, Compute Engine)
- MySQL, NoSQL (GCP Firestore)

CERTIFICATES

- Google IT Automation with Python (Certificate ID via Coursera ZE93AQECBUUG)