

EDUCATION

Master of Science in Computer Science, Software Engineering Concentration <i>The University of Texas, San Antonio</i>	Graduated Dec 2022
Bachelor of Science in Computer Science <i>The Catholic University of America, Washington, D.C.</i>	Graduated Dec 2018

EXPERIENCE

Graduate Teaching Assistant <i>The University of Texas at San Antonio</i>	Jan 2022 - May 2022 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 <i>SAS Retail Services LLC</i>	Feb 2019 - Jul 2021 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 <i>The Catholic University of America - Technology Services Help Desk</i>	Aug 2018 - Dec 2018 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 <i>The Catholic University of America - University Advancement</i>	Jun 2018 - Aug 2018 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

Grocery REST API <i>A Flask RESTful API</i>	Nov 2022 - Present
--	---------------------------

- 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 <i>GitHub / Website</i>	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 <i>IEEE Publication</i>	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	• REST, YAML, XML, JSON
• Flask, Junit, Bootstrap	• GCP (IAM, AppEngine, Compute Engine)
• Docker, Git, GitHub, Linux, Postman	• MySQL, NoSQL (GCP Firestore)

CERTIFICATES

- Google IT Automation with Python (Certificate ID via Coursera [ZE93AQECBUUG](#))
- API and Web Service Introduction (Certificate ID [UC-cd974a7e-6da1-4230-9702-166a930328f4](#))
- Complete Python Bootcamp: Go from zero to hero in Python 3 (Certificate ID [UC-CXE9QKI0](#))