

CHRISTA ONGOUYA

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EDUCATION

University of Houston

Bachelor of Science in Computer Science

Capstone: Data Science

Houston, TX
Expected May 2025

Relevant Coursework: Software Design, Data Science, Database Systems, Operating Systems, Digital Image Processing, Intro to Game Art and Animation, Intro to Automata and Computability, Data Structures & Algorithms, Intro to Computer Networks, Data Science II.

Houston Community College

Associate of Science in Engineering Science

Houston, TX
May 2022

WORK EXPERIENCE

NCWS-Front End Developer

University of Houston

Houston, TX
July 2024– Nov 2024

- Developed and maintained 50+ university web pages using HTML, CSS, and JavaScript reducing content update turnaround time by 20% via CMS optimizations.
- Enhanced user experience and accessibility by refactoring legacy code increasing mobile traffic by 10%.
- Collaborated with a cross-functional team to deploy A/B-tested UI components.

Academic Cougar Impact Tutor

University of Houston

Houston, TX
Sep 2022 – 2023

- Mentored 10+ students weekly, improving average test scores by 20% through tailored study plans and confidence-building techniques.
- Collaborated with teachers to design interactive lesson plans (e.g., gamified quizzes, visual aids), increasing student engagement by 25%.
- Facilitated activities in small groups to reinforce concepts taught by class teachers.

SKILLS

Languages & Frameworks: Python, Django, Flask, SQL, JavaScript, PHP, C++, HTML5/CSS3, React, Redux, Bootstrap, REST APIs, OAuth2, MySQL, NoSQL

Tools & Technologies: Azure, Docker, Microsoft Entra ID, Microsoft Graph API, AWS, Render, Git/GitHub, CI/CD, Linux, Tableau, TensorFlow, , Figma, Django, ORM

Other : Communication, Leadership, Organization , Adaptability , Teamwork, Agile practices, collaboration,OOP, French

PROJECTS

MOOSE JAW CONNECT | <https://github.com/MooseJawTeam/TeamMooseJaw>

Spring 2025(In Progress)

University of Houston - Team Project

- Built a secure web app using **OAuth2 (Office365/Microsoft Graph)** for authentication, with **RBAC** for permission management.
- Designed and implemented a comprehensive admin dashboard with full CRUD functionality, enhancing role assignment efficiency by 40% and enabling real-time tracking of user status for immediate operational adjustments.
- Integrated **REST APIs** and enforced secure session management for authenticated access.
- Led team of 3 using **GitHub** for version control, issue tracking, and **CI/CD** workflows, improving deployment cycle time by **50%**.
- Integrated a PDF based approval system for academic request forms, enabled digital signature upload, dynamic form field handling, and multi-stage approval tracking ,improving document turnaround speed by **60%** .
- Coordinated cross-team service integration to unify features and workflows from two independent systems into a single, scalable platform for broader academic request management.
- **Tech Stack:** Python, Django, MySQL, Azure, Microsoft Entra ID, Office365 OAuth2, Microsoft Graph API, HTML/CSS, Javascript, GitHub, Docker, REST APIs.

WEATHER APP | <https://cro-weatherapp.onrender.com>

Nov 2023

- Built a Django-based web application integrating OpenWeather **REST APIs** to fetch real-time weather data **globally** with dynamic rendering using **Bootstrap** for **responsive UI**.
- Deployed on **Render Cloud**, configuring environment variables and cloud services for public access achieving **99%** uptime.
- Tech Stack: Python, Django, RestApis, Bootstrap,Cloud Deployment(Render), Html/CSS.

PARK MANAGEMENT SYSTEM|<https://github.com/KHACTHANHANVU/Themepark>

Oct 2023 - Dec 2023

University of Houston - Team project

- Co-developed a full-stack software system for managing theme park operations, including user and booking management.
- Deployed on Azure, reducing hosting costs by **10%** through resource auto-scaling.
- Implemented CRUD operations supporting concurrent **access for 100+ users**.
- Tech Stack: Python, SQL, MySQL, HTML/CSS, Azure, GitHub.

DATA ANALYSIS AND DISCOVERY

Nov 2023 - Dec 2023

University of Houston - Team project (Data Science)

- Applied regression models to anticipate future healthcare demands by analyzing ongoing trends of the COVID-19 dataset.
- Implemented classification models to categorize days into different levels of hospitalization requirements.
- Performed a comprehensive exploratory analysis to reveal hidden patterns and extract valuable insights.
- Created visualizations to illustrate trends.
- Utilized statistical approaches to identify outliers in critical variables.

TAMAGOTCHI PET GAME |<https://github.com/christaO2/Tamagotchi-pet-game>

May 2023

- Designed a console-based interactive game using Object-Oriented Programming (OOP) principles in C++.
- Implemented ASCII-based user interface, player interaction loops, and resource management systems.

ORGANIZATIONS & EXTRACURRICULARS

NATIONAL SOCIETY OF LEADERSHIP

Member

Houston, TX
Mar 2021 – Present

NATIONAL SOCIETY OF BLACK ENGINEERS

Member

Houston, TX
Oct 2023- present

SOCIETY OF WOMEN ENGINEERS

Member

Houston, TX
Jan 2023 – Present

REWRITING THE CODE

Member

Jan 2023 – Present

CODE COOGS

Member

Houston, TX
Nov 2023 – Present