

DHANUSH KUMAR SELVARAJ KUMAR

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Education

University of Houston

Expected: May 2026

Bachelor of Science in Computer Science, Minor in Mathematics

GPA: 4.00

Experience

Scholar Enrichment Program

January 2024 – Present

Data Structures Workshop Facilitator

Houston, Texas

- Led a workshop of 30+ students by reiterating Data Structures concepts through interactive sessions, resulting in a 20% improvement in assessment scores.
- Prepared comprehensive materials twice a week, including slides and mock exams, to enhance student learning, resulting in a 90% satisfaction rate in student feedback.
- Contributed to the "Reflect-Interact-Create" ChatGPT-oriented teaching model to deepen student understanding of complex concepts using AI, leading to a 25% increase in student engagement.

Knack

January 2023 – Present

Tutor

Houston, Texas

- Conducted individual and group tutoring sessions for Calculus 1, Calculus 2, Python, and C++, using tailored teaching methods to address diverse learning needs, resulting in a 40% improvement in student grades and a 95% satisfaction rate.
- Ranked as one of the top five tutors on the Knack platform in 2023 by consistently delivering high-quality tutoring sessions, leading to receiving the Tutor of the Month award in July 2023.
- Tutored 40 students for nearly 600 hours, providing personalized instruction and support, resulting in a consistent 5-star feedback rating.

Projects

Wonderland Theme Park | HTML, CSS, Javascript, React, SQL, Vite, Vercel

April 2024

- Developed user authentication system and designed user views to ensure secure access and seamless navigation within the theme park management system.
- Integrated frontend with backend systems to enable efficient data entry and management, including the creation of data entry forms.
- Developed analytics reporting to measure the park performance on ticket sales, revenue, and rides.
- Implemented automated triggers for targeted promotions, enhancing revenue generation, resulting in a 25% increase in sales and customer engagement.

Tamagotchi Virtual Pet Game | C++

April 2023

- Designed the core gameplay mechanics, including pet creation, feeding, grooming, and health monitoring, utilizing object-oriented programming (OOP) principles.
- Implemented a time-based system to simulate real-time pet care, creating a realistic and engaging user experience.
- Utilized file I/O streams to save and load pet data, enabling players to continue pet's progress across multiple sessions.

Shopping ChatBot | Python, Rasa

June 2022

- Provided an easy, smart and comfortable phone shopping experience for e-commerce users through an AI based chatbot.
- Developed an interactive shopping chatbot using Rasa with knowledge base that consisted of phone name, RAM size and camera megapixel.
- Deployed through command line interface.

Certifications

Scientific Computing with Python | HPE

July 2024

Principles of Data Management | HPE

July 2024

Intro to Machine Learning | HPE

July 2024

Data Analysis with Python | IBM

July 2024

Azure AI Fundamentals | Microsoft

June 2024

Python for Data Science | IBM

June 2024

Technical Skills

Languages: Python, C/C++, JavaScript, HTML, CSS, R, SQL

Tools: Azure, Git, Shell, Docker, Postman, MS Access, Vercel

Frameworks/Libraries: React.js, Vite, PyTorch, Pandas, NumPy, Sk-learn, Matplotlib, Node.js