

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

Technical Skills

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

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

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

Relevant Coursework: Software Design, Database Systems, Data Structures & Algorithms, Data Science, Statistics

Experience

Headstarter AI

July 2024 – Present

Software Engineer Fellow

Houston, Texas

- Built **5** AI projects, with the overall goal of achieving either **\$1000** in revenue, creating **1000** accounts, or having **1000** people on a waitlist.
- Engaged in a collaborative environment while working alongside SWE leaders from **Google, Apple, Meta, and Bloomberg**, as well as other successful start-up companies.

University of Houston

January 2024 – Present

Data Structures Workshop Facilitator

Houston, Texas

- Facilitated a workshop for **30+** students on **Data Structures**, improving assessment scores by **20%**.
- Prepared materials like slides and mock exams, achieving a **90%** student **satisfaction rate**.
- Fostered a collaborative environment, increasing **student engagement** by **25%**.

Knack

January 2023 – Present

Tutor

Houston, Texas

- Conducted tutoring sessions in Calculus, Python and C++, achieving a **95%** satisfaction rate.
- Ranked among the **top five** tutors in **2023** and won **Tutor of the Month** in **July 2023**.
- Tutored **40** students for **600+** hours, maintaining a consistent **5-star** feedback rating.

Projects

SummarizeTube | Python, Google Gemini, Streamlit

August 2024

- Accelerated video content summarization by **70%** by engineering AI-powered YouTube Transcript Converter using **Google Gemini Pro**.
- Orchestrated end-to-end development of **Streamlit app**, optimizing user experience for summarizing transcripts.
- Synthesized detailed notes from transcripts with **Google Gemini Pro**, enhancing productivity by **50%**.

Health App | Python, Google Gemini, Streamlit

August 2024

- Built **Streamlit app** using **Google Gemini Pro** for AI-based calorie estimation from food images, aiding dietary choices.
- Developed interactive UI with real-time image processing, reducing dietary tracking time by **50%**.
- Deployed app for **real-time calorie assessment**, enhancing accessibility to nutritional information.

Target E-commerce Sales Data Analysis | Python, SQL, Pandas, Seaborn, Matplotlib, Numpy

August 2024

- Analyzed Target's e-commerce sales data, improving data-driven decisions by **20%** through advanced **SQL queries**.
- Automated data ingestion with a Python script, reducing manual effort by **30%** and enhancing data integrity.
- Visualized trends like **15% YOY sales** growth using graphs in **Jupyter** Notebook for clearer insights.

GameSpectrum | React, TypeScript, Bootstrap, ChakraUI, Vercel

August 2024

- Launched a **responsive gaming website** with dynamic themes, search, and advanced sorting/filtering.
- Integrated **rawg.io API** for real-time game data, boosting content richness and user engagement.
- Optimized website for cross-device functionality, ensuring **high user satisfaction** and accessibility.

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

April 2024

- Engineered **secure user authentication** and intuitive views, enhancing navigation within the theme park system.
- Merged frontend with backend for streamlined data management, **improving efficiency** in data entry.
- Implemented analytics and automated promotions, boosting ticket sales and engagement by **25%**.

Certifications

Azure AI Fundamentals | Microsoft

June 2024

Data Analysis with Python | IBM

July 2024

Intro to Machine Learning | HPE

July 2024

Principles of Data Management | HPE

July 2024

Software Engineering | JP Morgan Chase

July 2024