

EDUCATION

<b>University of Houston, GPA: 3.8</b>	Houston, TX
<i>B.S. Computer Science, Focus: Data Science</i>	2023 - 2026
<i>B.S. Mathematics, Focus: Data Science</i>	2024 - 2026

EXPERIENCE

<b>Tutor Fellowship</b>	Jan 2025 – Dec 2025
<i>Ignite Teach For America</i>	<i>Remote</i>
<ul style="list-style-type: none"><li>• Provided virtual one-on-one tutoring to underserved students, helping accelerate their academic progress and foster educational equity</li><li>• Participated in comprehensive professional development sessions to enhance tutoring effectiveness and student engagement strategies</li><li>• Collaborated with Ignite Site Leaders and fellow tutors to implement personalized learning approaches and track student progress</li><li>• Engaged in regular feedback sessions and development activities to continuously improve tutoring effectiveness</li></ul>	
<b>Computational Physics Undergraduate Research</b>	May 2024 – Aug 2024
<i>CTBP Rice University</i>	<i>Houston, TX</i>
<ul style="list-style-type: none"><li>• Conducted research on cell differentiation of chromosome ensembles using minimal models</li><li>• Utilized Minimal Polymer Models to simulate and analyze Hi-C maps for multiple human cell lines</li><li>• Performed simulations of Chromosome 10 across various cell lines</li><li>• Developed pipelines for ensemble analysis using techniques such as PCA, t-SNE, and UMAP</li><li>• Collaborated with team members and presented findings in weekly meetings</li></ul>	

PROJECTS

<b>UH Approval System</b>   Django, PostgreSQL, React, Vite
<ul style="list-style-type: none"><li>• Developed a web-based academic form submission and approval system using Django backend and React frontend</li><li>• Implemented Office365 authentication for secure user login and role-based access control</li><li>• Designed and built a hierarchical approval workflow system allowing for complex multi-step processes</li><li>• Created electronic signature functionality for PDF document generation and validation</li><li>• Built administrative interfaces for managing users, organizational units, and approval delegation</li><li>• Integrated with another team’s system to expand service coverage across multiple organizational units</li></ul>
<b>Medical Clinic Management System</b>   MySQL, Node.js, Express, Sequelize, React
<ul style="list-style-type: none"><li>• Designed and implemented a detailed database schema for efficient management of medical clinic operations</li><li>• Developed a backend API using Node.js, Express, and Sequelize ORM, establishing complex relationships between entities</li><li>• Implemented user authentication and role-based access control for secure data management across different user roles</li><li>• Created API endpoints for core functionalities including user registration, appointment scheduling, and medical record management</li></ul>

SKILLS

<b>Programming:</b> Python, SQL, C/C++
<b>Data Engineering:</b> Snowflake, PostgreSQL, MySQL, ETL Pipelines, Data Modeling
<b>Data Analysis &amp; ML:</b> Pandas, NumPy, Scikit-Learn, Jupyter, Matplotlib
<b>Tools:</b> Git, Linux, Shell

RELEVANT COURSE WORK

<b>Computer Science:</b> Algorithms & Data Structures, Operating Systems, Database Systems, Software Engineering, Software Design, Data Science
<b>Mathematics:</b> Linear Algebra, Probability, Statistics, Calculus I-III, Discrete Mathematics, Data Science