

# Diego A. Coronado

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## EDUCATION

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### University of Houston

*Bachelor of Science in Computer Science, Focus: Data Science*

Houston, TX

*Bachelor of Science in Mathematics, Focus: Data Science*

Aug. 2023 - May 2026

*Phi Beta Kappa Honor Society*

## EXPERIENCE

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### Tutor Fellowship

Jan. 2025 - Present

*Ignite Teach For America*

Remote

- Provided virtual one-on-one tutoring to underserved students, helping accelerate their academic progress and foster educational equity
- Participated in comprehensive professional development sessions to enhance tutoring effectiveness and student engagement strategies
- Collaborated with Ignite Site Leaders and fellow tutors to implement personalized learning approaches and track student progress
- Engaged in regular feedback sessions and development activities to continuously improve tutoring effectiveness

### Computational Biophysics Undergraduate Research

May 2024 - Aug. 2024

*CTBP Rice University*

Houston, TX

- Conducted research on cell differentiation of chromosome ensembles using minimal models
- Utilized Minimal Polymer Models to simulate and analyze Hi-C maps for multiple human cell lines
- Performed simulations of Chromosome 10 across various cell lines
- Developed pipelines for ensemble analysis using techniques such as PCA, t-SNE, and UMAP
- Collaborated with team members and presented findings in weekly meetings

## PROJECTS

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### University Approval System | Django, SQL, React, Vite

- Developed a web-based academic form submission and approval system using Django backend and React frontend
- Designed and built a hierarchical approval workflow system allowing for complex multi-step processes
- Created electronic signature functionality for PDF document generation and validation
- Built administrative interfaces for managing users, organizational units, and approval delegation
- Integrated with another team's system to expand service coverage across multiple organizational units

### Medical Clinic Management System | SQL, Node.js, React

- Designed and implemented a detailed database schema for efficient management of medical clinic operations
- Developed a backend API using Node.js, Express, and Sequelize ORM, establishing complex relationships between entities
- Implemented user authentication and role-based access control for secure data management across different user roles
- Created API endpoints for core functionalities including user registration, appointment scheduling, and medical record management

## TECHNICAL SKILLS

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**Languages:** Python, SQL, R, C/C++, Javascript, HTML/CSS

**Data Engineering:** SQL, Pipelines, ETL/ELT, Data Modeling

**Tools:** Git, Linux, Shell