

# Vernetta J Huang

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## Education

<b>Cornell University</b>   Masters of Engineering in Computer Science	Expected Dec. 2025
<b>Cornell University</b>   B.S. in Computer Science, Minor in Information Science   GPA: 3.83	Expected May 2025

## Technical Skills

**Languages:** R, SQL, Python, Java, C, Swift, MATLAB, HTML/CSS, JavaScript, OCaml

**Frameworks and Technologies:** NumPy, Pandas, PyTorch, TensorFlow, Matplotlib, React, jQuery, Bootstrap, Flask, Tableau, Git

**Skills:** Data Analytics, Databasing, Artificial Intelligence, Algorithms & Data Structures, Object-Oriented Programming, Functional Programming, Statistical Analysis, Operating Systems, Natural Language Processing, Computer Graphics, Full Stack

## Experience

<b>Data Analytics &amp; Web Development Intern</b>	May 2024 - Aug. 2024
New England Biolabs   Ipswich, MA	

- Conducted statistical analyses and data visualization on social media and e-commerce sales data, deriving 100+ actionable insights to enhance SEO, optimize costs, and drive sales growth. Utilized Tableau, Google Analytics, and Databricks.
- Merged 10 country-specific domains into a unified domain, reorganized backend data parsing and directory.
- Designed interactive data dashboards for internal teams, enabling self-service analytics to address key business questions.
- Developed and implemented data-driven solutions to enhance website user experience, increasing sales and user activity.

<b>Wiki and Design Subteam Lead &amp; Advisor</b>	Nov. 2022 - Present
International Genetically Engineered Machine (iGEM) Project Team   Ithaca, NY	

- Led team of 40 in building a website and developing an online game to achieve Gold Medal Classification at the International iGEM Grand Jamboree for two consecutive years.
- Redesigned team website to align with rebranding, increasing number of team applicants by 2.5x to over 150 students.
- Developed and taught training projects, improving technical skills with 97.5% of the team reporting increased effectiveness.

<b>Academic Excellence Workshop Facilitator</b>	Aug. 2022 - Present
Engineering Learning Initiatives   Ithaca, NY	

- Taught 5 courses in Computer Science Organization and Differential Equations to classes of 20+ students.
- Developed instructional materials, including lessons, presentations, and worksheets, to facilitate student learning.

## Projects

<b>Platform Moderation to Mitigate Harm of Viewing Ableist Text with LLMs</b>	Jan. 2025 - Present
Research group examining disability-related discrimination, focus on online safety, accessibility, and AI. Developing web-based prototype, implementing APIs, running quantitative analysis and statistical modeling.	

<b>COMMIT Tuberculosis Data Analysis on Catastrophic Costs</b>	Oct. 2024 - Dec. 2024
Data analysis to quantify the financial strain tuberculosis imposes on households and highlight potential areas for intervention.	

<b>Mathematical Equation Solver Using Image Recognition</b>	Jan. 2024 - May 2024
A math solver that takes in an image of a math equation (handwritten or printed) and outputs the solution. Focus on AI techniques including image recognition, image segmentation, and use of existing databases to improve accuracy and efficiency.	

<b>HeartBeat</b>	Jan. 2024 - May 2024
Platform rhythm-style desktop game developed in LibGDX, handling backend and design, utilizing SCRUM/Agile Methodology.	

<b>Sorry!</b>	Mar. 2023 - May 2023
Terminal version of the board game Sorry! using OCaml and JSON. Created 300+ test cases to ensure correctness. Focus on processing lists, encapsulation and modules.	

## Leadership

<b>Cornell E.Motion</b>   Media Chair & Senior Advisor	Sep. 2021 - Present
<b>Cornell Taiwanese American Student Association</b>   Mentor	Sep. 2021 - Present
<b>United Abacus Arithmetic Association (UAAA)</b>   Teacher & Senior Advisor	Jun. 2017 - Present