

# Vernetta J Huang

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## Education

**Cornell University** | Masters of Engineering in Computer Science Expected Dec. 2025  
**Cornell University** | 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

**Data Analytics & Web Development Intern** 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 optimize search engine performance, achieve cost savings, and increase sales.
- 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.

**Wiki and Design Subteam Lead & Advisor** 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.

**Academic Excellence Workshop Facilitator** 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

**Platform Moderation to Mitigate Harm of Viewing Ableist Text** Jan. 2025 - Present  
Research group examining disability-related discrimination, focus on online safety, accessibility, and AI. Creating a web-based mock social media platform for data collection and analysis.

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

**Mathematical Equation Solver Using Image Recognition** 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.

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

**Sorry!** 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

**Cornell E.Motion** | Media Chair & Senior Advisor Sep. 2021 - Present

**Cornell Taiwanese American Student Association** | Mentor Sep. 2021 - Present

**United Abacus Arithmetic Association (UAAA)** | Teacher & Senior Advisor Jun. 2017 - Present