Sweta Chivukula

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EDUCATION

CASE WESTERN RESERVE UNIVERSITY — Cleveland, OH
B.S.E Engineering GPA: 3.58/4.00 — May 2026
Major: Biomedical Engineering; **Minors:** Computer Science, Business Management
Relevant Coursework: Biomaterials; Signals and Systems; Modeling Systems; Principles of Instrumentation; Logic Design and Computer Organization; Data Structures; Algorithms
Skills: Python, Java, MATLAB, SOLIDWORKS, DRAFTSIGHT, Cura, SQL, R, Arduino, Tableau, Snowflake

WORK EXPERIENCE

ADVERUM BIOTECHNOLOGIES — Redwood City, CA
Data Analytics Intern — May 2025 - August 2025
- **Designed and built Tableau dashboards** to compare clinical trial site demographics with corresponding county-level data
- Embedded **dynamic calculations** to estimate the number of participants needed to **meet diversity goals** within the dashboards
- **Integrated and cleaned** large datasets (**100K+ rows each**) from multiple sources and connected Snowflake data to Tableau for streamlined, **real-time reporting**
- **Analyzed top LLMs** and presented insights to cross-functional teams, helping **guide the company's decision** on model selection and **implementation**

HIGHLINE CONTROLS — Livermore, CA
Optimization and Manufacturing Intern — June 2024 - August 2024
- **Optimized** malfunctioning assemblies by designing SolidWorks **parts, drawings, and assemblies** for customers and adapted for 3D printing constraints
- Performed an **engineering study regarding Python to PLC communication** to aid a client in using PLC as memory only
- Utilized **Python scripting** on multiple platforms to **remove PLC logic** from PC to robot communication
- Supported a **quality assurance process** which **saved a client corporation 3 months** in a calendar year

GRACZYK LAB — Cleveland, OH
Research Assistant — December 2022 - PRESENT
- Leading a **data analysis project** to compare artificial stimulation signals to natural touch in order to **design a natural sensory stimulation**
- Conducted **image registration** between MRI and CT scans to identify electrode locations
- **Performed literature review** on neural anatomy related to the **grasp network**
- Developed **artifact rejection code** to preserve neural signals to explore the representation of cortical stimulation

CASE SCHOOL OF ENGINEERING — Cleveland, OH
Physiology Teaching Assistant — August 2024 - PRESENT
- Assisting students with questions and course content through **2+ hours of weekly office hours**
- **Grading 100+ assignments, quizzes, and exams** allowing professors to focus on course content
- **Collaborating with other TAs** to hold review sessions and effectively help students

CERTIFICATIONS

BREAK THROUGH TECH AI
Fellow — May 2025 - May 2026
Machine Learning certification through eCornell
- Completed coursework covering supervised/unsupervised learning, model evaluation, and bias mitigation
- Applied **Python, NumPy, Pandas, and scikit-learn** to real-world problems in structured lab assignments
- **Built and evaluated models** such as decision trees, logistic regression, and k-means clustering using real datasets

LEADERSHIP ACTIVITIES

NAADAM (Indian Classical Music Club) — Cleveland, OH
President, Secretary — August 2023 - PRESENT
- Lead a **collaboration** with a dance club on campus to perform an advanced song in front of **150+ audience members**
- **Organized weekly meetings** for new members to learn classical music from more experienced members
- **Trained new members** to perform a **30 minute advanced song** in one semester