



# Srivaths Ravva

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## EDUCATION

**SUNY Stony Brook University - GPA: 3.83/4.0 (5x Dean's List)**

*B.S. in Computer Science Honors and Applied Math & Statistics*

**Stony Brook, NY**

*Expected Graduation May 2026*

## TECHNICAL SKILLS

**Languages:** Python | TypeScript | JavaScript | Java | C | SQL | Arduino | HTML | CSS | R | Excel | Lua | Swift | Dart | SML

**Frameworks/Libraries:** React.js | Next.js | Bootstrap CSS | Material-UI | PyTorch | Pandas | NumPy | Scikit-Learn | Flutter | Openpyxl | Git | REST APIs | Selenium | Axios | React-Native | Expo | Webpack | PostgreSQL | Prisma

**Tools/Other:** Vercel | OpenAI API | GrokAI API | Gemini API | Google Firebase | Supabase | UML | Blender

## EXPERIENCE

**Tennessee Tech University REU**

*Undergraduate ML Researcher*

**Cookeville, TN**

*May - July 2024*

- Developed fingerprinting methods for ultrasonic sensors to increase hardware security techniques.
- Classified 8 ultrasonic sensors using supervised ML models (Decision Tree, Multilayer Perceptron).
- Trained models on 22,000 points of distance data (with %error, variance, kurtosis, skew as features).
- Built models with 87% accuracy using Scikit-Learn, NumPy, & Pandas; Arduino to build testbed.
- Published scientific journal for IEEE Southeast Conference 2025.

**Campus Residences IT**

*Student Technician*

**Stony Brook University, NY**

*September 2022 - May 2024*

- Monitored 300+ computers/printers in residential buildings using Quest KACE Management System.
- Assessed technical issues (Software Installation, Hardware/OS issues, Network Troubleshooting).
- Resolved students' technical issues using Team Dynamix & Cherwell IT Service Management.
- Offered excellent customer service to student and professional staff in the Virtual Help Desk.

**Sciegen Pharmaceuticals Inc**

*Data Analyst Intern*

**Hauppauge, NY**

*July - September 2022*

- Automated data entry in Excel with custom Python script, resulting in 600% faster tasks.
- Developed Python script to automate verification of contracts with 20+ customer companies.
- Reorganized 100+ product sheets in OneDrive folder to make file referencing more efficient.

## PROJECTS

**Fly Spy** | *React Native, TypeScript, Google Firebase, Google Maps, Google Play Store*

**Since August 2024**

- Developed cross-platform (iOS/Android) mobile app using React-Native, Expo, Google Firebase, and Google Maps.
- Facilitated data collection for spotting D. Elegans fly species for international research based in Taiwan.
- To be launched on 2 platforms: Apple App Store and Google Play Store with proper licensing.

**EcoFinder** | *React.js, TypeScript, OpenAI API, Webpack Bundler, Axios*

**February 2025**

- Won 1<sup>st</sup> place at HopperHacks X Hackathon for Best Environmental Sustainability Hack.
- Developed a Google Chrome Extension to find 3 eco-friendly alternatives to products on online shopping sites.
- Generated eco-friendly product alternatives by sending OpenAI API (GPT-4)

**Wolfie AI Tutor** | *Next.js, React.js, TypeScript, GPT-4o, GrokAI, Gemini AI, Axios, PostgreSQL, Prisma, Supabase* **December 2024**

- Developed an AI-tutor chatbot which guides students during practice SAT exams (all 4 sections).
- Implemented 3 AI models (GPT-4o, GrokAI, Gemini) and performed prompt engineering to optimize responses.
- Added 3 core features: Generate Similar Question, Question Breakdown, Solution Walkthrough.

**Snack Shack** | *Next.js, React.js, Material-UI, OpenAI API, Google Firebase, Axios*

**February 2024**

- Developed an AI-powered Full-Stack inventory CRUD app using Next.js, React, and Material-UI.
- Send images from camera to OpenAI Vision API (GPT-4o-mini) to detect & add objects to inventory.
- Configured Google Firebase as the inventory database with add and remove features.

**Takuzu** | *React.js, CSS, Bootstrap CSS, Google Firebase*

**December 2023**

- Developed clickable puzzle game (goal: fill  $n \times n$  grids with certain rules) 4 levels w/ 3 puzzles each.
- Using React.js, pure CSS, and Bootstrap CSS. Includes Dark-Mode and music features.
- Linked to Google Firebase for user account authentication to store user score and preferences.