Srivaths Ravva

✉ srivaths.ravva@gmail.com | 💼 dapots.github.io/Portfolio | in linkedin.com/in/srivaths-ravva

EDUCATION

SUNY Stony Brook University - GPA: 3.83/4.0 (5x Dean's List)   **Stony Brook, NY**
B.S. in Computer Science Honors and Applied Math & Statistics   *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   **Cookeville, TN**
Undergraduate ML Researcher   *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   **Stony Brook University, NY**
Student Technician   *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   **Hauppauge, NY**
Data Analyst Intern   *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 1st 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 x 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.