Srivaths Ravva

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EDUCATION

SUNY Stony Brook University - GPA: 3.8/4.0 (4x 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 | SQL | HTML | CSS | Java | C | Arduino | R | Excel | Lua | Dart
Frameworks/Libraries: PyTorch | Pandas | NumPy | Scikit-Learn | React.js | Next.js | Bootstrap CSS | Material UI | Flutter | Openpyxl | Git | REST APIs | Selenium | Axios | React-Native | Expo
Tools/Other: Vercel | OpenAI Vision API | Google Firebase | Blender

EXPERIENCE

FlySpy App Stony Brook, NY
Mobile App Software Engineer *Since August 2024*
- Developed cross-platform (iOS/Android) mobile app using React-Native, Expo, and Google Firebase.
- 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.

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.
- Drafted a publishable paper on relevant findings of project.

Stony Brook University Stony Brook, NY
Introduction to Java Teaching Assistant *January - May 2024*
- Created 60+ practice questions, held exam review sessions, and proctored exams for over 100 students.
- Held 3-hour lab sessions per week, helping students develop their object-oriented programming skills
- Assisted professor in grading Java-based weekly homework, 2 midterm exams, and final.

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

Snack Shack *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 *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.

Stock Market Visualizer *June 2023*
- Developed Python program to visualize stock-growth for a specified company for past 1-12 months.
- Input is taken as stock symbol data is scraped from NASDAQ using Selenium library.
- Used Pandas to manipulation data, then displayed data as a Candlestick chart using Plotly.