Srivaths Ravva

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EDUCATION

SUNY Stony Brook University - GPA: 3.79/4.0   **Stony Brook, NY**

Bachelor of Science: Computer Science Honors   *August 2022 - May 2026*

Bachelor of Science: Applied Math & Statistics

- Coursework: Data Structures, Systems Fundamentals, Discrete Mathematics, Multivariable Calculus, Differential Equations, Graph Theory, Probability & Statistics, Linear Algebra, Data Analysis

TECHNICAL SKILLS

Languages: Python, Java, C, Arduino, R, JavaScript, Excel, Lua, Dart

Frameworks/Libraries: PyTorch, Pandas, Numpy, Scikit-Learn, Flutter, React, Bootstrap, Openpyxl

Tools/Other: Google Firebase, Blender

EXPERIENCE

Tennessee Tech University REU   **Cookeville, TN**

Undergraduate Researcher   *May - July 2024*

- Project: Fingerprinting Ultrasonic Sensors using Machine Learning
- Classified ultrasonic sensors using supervised machine learning models (Decision Tree, Multilayer Perceptron)
- Built models using Pytorch framework, scikit-learn library. Used Arduino to build data collection testbed.
- Drafted a publishable paper on relevant findings of project.

Campus Residences IT   **Stony Brook University, NY**

Student Technician   *September 2022 - Present*

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

Sciegen Pharmaceuticals Inc   **Hauppauge, NY**

Summer Intern   *July - September 2022*

- Automated data entry in Excel with custom Python program, resulting in 600% faster tasks.
- Reorganized customer product sheets in OneDrive folder to make file referencing more efficient.
- Learned drug manufacturing process to understand drug manufacturing process including finance, manufacturing, and chemical quality testing.

PROJECTS

File Compression/Decompression   *February 2024*

- Developed a C program to compress/decompress text using Huffman Tree Encoding/Decoding algorithm.
- Can compress data to reduce file size by ~90% via encoding in blocks.
- Can take a given encoding to decompress blocks into full text.

Takuzu   *May 2023 - Present*

- Co-developed a clickable puzzle game with an objective to fill a n-by-n grid following a set of rules.
- Made using React.js, pure CSS, and Bootstrap CSS.
- Linked to Google Firebase for user account authentication (email & password) to store user score and preferences.

Stock Market Visualizer   *June 2023*

- Developed program in Python to visualize stocks for any given company of the past few 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.