Sai Praneth Raju K

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EDUCATION

University of California, Berkeley (Currently Pursuing - Batch of 2027)
*B.A. in **Astrophysics & Computer Science (Dual Major)** | GPA: 3.7*

WORK EXPERIENCE

Jadoo Technologies, Inc., Berkeley, CA
Undergraduate Research Apprentice ***2024-Till Date***

- Jadoo Technologies (JT) is a global startup-company based on breakthroughs in Nano-technology based platforms. The JT platform consists of a programmable array of Nanostructures (Carbon Nanotubes).
- Supporting Jadoo Tech as a research apprentice, under the guidance of a mentor, working on server-side analysis using machine learning algorithms to collect data from the Carbon Nanotubes and UI development.

STAR, Berkeley, CA
Avionics ***2023-Till Date***

- STAR is a Berkeley Students Club which has a history of the longest and successful rocket launch on Berkeley campus with nine complete Vehicles, two Liquid Engines and 11 Substeams.
- Inducted into the STAR club and currently supporting as an Avionics member working on the communication of the rocket with the ground system. Currently part of the LE2 and LE3 liquid engine rocket.

STEM League Organization, Seattle, WA
Lead Developer & Mentor ***2020-22***

- Joined STEM League Club to provide STEM opportunities for students worldwide. Served as a mentor during the Summer 2020-22 developer program for students from 6th - 10th grades.
- Offered full-time support on computer programming addressing student queries, reviewing assignments, and providing guidance of best programming practices. Tutored 20 students in Web Development.

Vonette Schools Mobile App, Seattle, WA
Lead Developer & CTO ***2021-23***

- Developed a cost-effective mobile-based collaboration platform for students, teachers, counselors and clubs sponsored by Northshore School District, supported on both Android and iOS platforms.
- Led a team of seven developers ensuring successful execution and timely launch of the product to the School District. This was an initiative to replace a licensed tool used by the school realizing substantial savings for the school district.

MightyCoders, Seattle, WA
Computer Programming Instructor ***Summer 2023***

- Took up a part-time job during summer 2023 to teach computer programming to kids.
- Responsible for teaching basic coding fundamentals, reviewing assignments and conducting practical session in a class-room setting

PERSONAL INITIATIVES

GitHub Projects

Application Developer ***2019-Till Date***

- **Stock Price Prediction Model**: Developed a predictive algorithm using LSTM model, achieving a 73% accuracy in forecasting stock prices. Generated a profit of $75 within a few days from a $10K investment through a simulation model.
- **Networking:** Created a fundamental server-client system for DM's between network nodes and developed reverse shell code to build hands-on expertise in Cybersecurity and Networking using Python.
- **Real-time Translator (Speech-based)**: Ideated and developed a portable real-time translator that is capable of translating audio messages to user's configured language ()transmitted through audio) using Raspberry Pi. Works very effectively for users who travel frequently to countries of different languages.

CuriousAvenger.net

Personal Website & Blogs ***2017-Till Date***

- Published blogs related to Astrophysics correlating complex concepts with real-world scenarios to build conceptual understanding. Recognized by subject matter experts in the science field for quality and depth of the content.
- Blogs are based on experimental concept development and self-learning of science fundamentals, often experimented with real-world scenarios. Some of the blogs include Quantum Tennis, Teleportation, Quantum Field Theory and Higgs Boson.

Inspirit AI: Understanding SIRI (led by alumni of Stanford, MIT and Harvard)

Summer Internship ***2022***

- Mastered diverse Machine Learning and Neural Network algorithms including Linear & Logistic Regression, LSTM and Natural Language Processing.
- Demonstrated practical application by constructing an Alexa-like prototype utilizing BERT modeling, achieving an impressive 98% accuracy. Recognized as "Best Project Presentation" among nine competing teams during the program.

EXTRACURRICULAR ACTIVITIES

Tennis Sport - USTA, Varsity Tennis and Other

Ranked #2 in Singles & #1 in Doubles ***2019-2023***

- Tennis player since age 10 attaining a notable rank of 7 in Telangana State, India (2018) in Under-14 category. Participated and won in two Intermediate USTA tournaments.
- Represented High School (HS) in Districts (King County) all four years of HS and recognized as the Most Valuable Player (MVP) in freshman year. Ranked #2 in Singles and #1 in Doubles within the HS Team.