SASHIT VIJAY

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Education

Arizona State University   **May 2021 − Present**
Ira A. Fulton School of Engineering, Computer Science
- Current GPA – **4.0/4.0** — Dean's List Academic Award Recipient (Fall 21 - Spring 24)
- **NAMU Scholar** (2021 - 2024) — **IEEE Scholar** (2021 - 2023) — Kaplan Scholar (2021)
- Representing USA in International Beach Ultimate Mixed Club Championships (IBUXCC) 2024

Experience

PI Academy   **May 2024 − Jul. 2024**
Software Engineer Summer Intern
- Engineered an application to segregate **400+** food waste types using image analysis, enhancing waste management efficiency and improving model accuracy by **9%** through ensemble learning techniques.

University Academic Success Program, ASU   **Aug. 2022 − Present**
Engineering Tutor
- Mentored over **12,000** students with up to senior-year level courses in CS, Math, and Physics, and received the Sun Devil Appreciation Award **5** times for outstanding support.

Projects

SoccerSense   **Jun. 2024 − Aug. 2024**
Python, Deep Learning, Computer Vision, OpenCV, YOLO, PyTorch, KMeans, Pandas, Numpy

- Developed an application for live analysis of soccer games, incorporating live tracking, interpolation, perspective transformations, and clustering algorithms. Achieved **82%** accuracy in providing live updates on team and individual player statistics.

MyLLM   **May 2024 − Jun. 2024**
Python, Deep Learning, PyTorch, Transformers, CUDA

- Engineered a custom Large Language Model (LLM) using Transformers, achieving a **30%** reduction in training time and **15%** improvement in model accuracy through CUDA optimization.

SyncLink − a Network File System   **Dec. 2023 − Jan. 2024**
C, Shell Scripting, Operating Systems, System Call, Networking, Socket Programming

- Devised a robust Network File System (NFS) supporting seamless file operations for **10+** users. Optimized server response time through efficient management of distributed storage

ThreadIt   **Nov. 2023 − Dec. 2023**
MongoDB, ExpressJS, ReactJS, NodeJS, Docker

- Constructed a social media platform inspired by Reddit, leveraging the MERN stack, enabling over **1,000** user registrations and **200+** subthreadit creations, with advanced features like fuzzy search, user reporting, and Docker deployment for seamless scalability.

Achievements

USA National Beach Ultimate Championship   **Huntington, California**
Ranked **4th** Nationwide as a Debutant team in 2023; ranked **3rd** in 2024   May 2024, May 2023
Institute of Electrical and Electronics Engineers (IEEE) Grant   **Tempe, Arizona**
Secured **1st** place in an IEEE competition with a visionary project proposal, winning **$5,500** in funding.   Fall 2021
Youngest Jaipur AU Half Marathon Finisher   **Jaipur**
Designed a 12-week training plan, maintaining 15+ weekly miles; successfully completed half marathon as a **14** year old   Feb. 2018

Positions held

Executive Board (Secretary)   **Indian Students' Association**
Led product launches. Coordinated high-profile events, boosting attendee satisfaction by 30%   2023 − 2024
Executive Board (Travel manager)   **Men's Ultimate Frisbee at ASU**
Optimized team travel using a centralized calendar. Deployed a real-time tracking for 25+ players   2022 − 2024
Board of Directors (Director of Production)   **Indian Students' Association**
Led a team of 15, delivering 30+ projects; streamlined reviews, cutting feedback loops by 30%   2021 − 2023

Technical Skills

Languages: Python, Java, C++, C, CSS, C, Ubuntu, MySQL, MATLAB
Libraries and frameworks: Django, Flask, JavaFX, Pytorch, React, MongoDB, OpenCV, scikit-learn, Numpy, Pandas
Fields: Software Development, Machine Learning, Computer Vision, Digital ASIC