

Saadiq A. Jones

saadiqjones.com
linkedin.com/in/saj83

github.com/Saadiqjones
saj83@pitt.edu

Education

University of Pittsburgh

B.S Computer Science, B.A. Physical Anthropology

Graduation: Dec 2021

Extracurriculars:

Pitt Varsity Marching Band, Pitt Robotics & Automation Society - Perception Team, Pitt CSC - Student Mentor

Technical Skills

Programming Languages: Java, Python, C, C#, HTML5, CSS3, JavaScript

Databases: Microsoft SQL server, PostgreSQL MongoDB, Firebase

Tools: Git, GitHub, Ubuntu, ROS, OpenCV, Scrum, Google Cloud Platform, Google Collab, Jupyter, ArcGIS

Web Frameworks & Libraries: Node.js, Express.js, React.js, React Native, ASP.Net, Flask, PyTorch, Bootstrap, Django

Work Experience

Undergraduate Teaching Assistant – School of Computing and Information

Aug 2020 – Present

- Prepared weekly review sessions for 30+ students each semester to increase learning retention.
- Created two questions each week through the Programming Course Resource System to evaluate retention of material after weekly review sessions, leading to a 14% increase in average student exam scores for CMPINF 401: Intermediate Programming in Java.
- Evaluate weekly student assignments for CS 0011: Introduction to Computing for Scientists.

GeoPacha Satellite Imagery Prospecting Intern – University of Pittsburgh

Jan 2020 – Feb 2021

- Surveyed 400+ map grids for archaeological dig sites and assessed locus point confidence levels.
- Cataloged similarities between ancient pukaras to designate regional clusters for follow-up research.
- Reported analysis of GeoPacha results, focusing on distributions of Andean pukaras, resulting in a recommendation from the Lead Professor for a BPHIL, the highest degree possible for undergraduate students.

IT Managing Associate – Perfect Fit Canines

May 2017– Aug 2018

- Unofficial technical officer for redesigning the company website and handling business technology.
- Reported updates and recommendations to non-technical manager and Chief Executive Officer regarding website maintenance, network administration, and IT infrastructure improvements.
- Eliminated unused site files and broken links, and recycled specialty event site files.

Projects

Indy Autonomous Challenge – Pitt Robotics & Automation Society

Aug 2020 – Present

- Researched, Implemented and evaluated bleeding-edge approaches to multi object tracking and identification, 3D Bounding Box detection and estimation, and LiDAR, radar, and camera sensor fusion.
- Constructed training and testing environments with Python, PyTorch, TorchVision, Google Collaboratory notebooks and OpenCV to evaluate object detection and 3D box estimation models.
- Evaluated several Monocular 3D vehicle detection methods using GitHub repos from recently published academic works to improve 2D multi object tracking and detection to 3D tracking on the KITTI dataset.
- Technology Utilized: ROS, OpenCV, PyTorch, Ubuntu, CUDA, NumPY, TorchVision

Soup'er - Food Pantry Locator

Dec 2019 – Present

- Manufactured Android Application to connect families within Pittsburgh communities affected by COVID to local food pantries.
- Utilized Google Maps API and React Native to provider users with information about, and locations of, pantries that they qualify to shop at based on their Zip code, dietary restrictions, income levels, and other socio-economic factors.
- Adjusted personal project to be scaled for community usage by the Pittsburgh JFCS.
- Adapted user-specific log-in functionality to allow new pantries to add their location to the app.
- Technology Utilized: React Native, Android Studio AVD, MongoDB, Node.js, Express.js, Google Maps API