

# Saadiq A. Jones

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## Technical Skills

**Programming Languages:** Java, Python, C, C++, C#, HTML5, CSS3, JavaScript ES6, MIPS Assembly

**Databases:** SQL server, MongoDB, Firebase

**Tools:** Git, GitHub, Ubuntu, Vim, ROS, OpenCV, Docker, PCRS

**Frameworks/Libraries:** Node.js, Express.js, React.js, React Native, ASP.Net, Flask, Bootstrap, Sass

## Projects

### Indy Autonomous Challenge

Aug 2020 – Present

- Collaborated with Perception-Localization Team to define 3D bounding boxes for data augmentation using ANSYS Driving Simulator and Ansys SCADE
- Currently attempting to utilize lidar point clusters for computer vision within the simulation
- Technology Utilized: ROS, OpenCV, Docker, C++, Python, Ubuntu

### Chemical Drug Modeling Software

July 2020 – Present

- Currently devising a simulation program to visualize complex drug interactions using chemical element templates
- Python ML libraries are currently being introduced for the development and utilization of the predictive models
- Technology Utilized: React.js, Python, Django, PostgreSQL

### Soup'er - Food Pantry Locator

Dec 2019 – Present

- Manufactured application to connect communities affected by COVID to local pantries and soup kitchens
- Adjusted personal project to be scaled for community usage by the Pittsburgh JFCS
- Currently adapting user-specific log-in functionality to allow new pantries to add their locations to the app
- Features: User Authentication, CRUD Functionality, Google Maps API for pantry addressing
- Technology Utilized: React Native, Express.js, Node.js, MongoDB, JavaScript ES6

### Budgeting / Finance Alert Portal

Jun 2018 – Present

- Designed financial portal to track budgets, monitor scheduled credit score adjustments, and provide funding alerts
- Currently adding function to link other accounts and bank cards to the portal to facilitate automated portal usage
- Currently experimenting with the addition of stock analysis and trade algorithm features for user utilization
- Features: User Authentication, CRUD Functionality, MVC Architecture
- Technology Utilized: Bootstrap, C#, ASP.Net, SQL server with Entity Framework

## Work Experience

### Undergraduate Teaching Assistant – University of Pittsburgh School of Computing and Information

Aug 2020 – Present

- Assisted professor with class preparation and led review sessions for students outside of class time
- Generated lab questions through PCRS to assess students' retention of information taught in lecture
- Prepared review slides and taught recitation section for CMPINF 401: Intermediate Programming in Java

### GeoPacha Satellite Imagery Prospecting Intern – University of Pittsburgh

Jan 2020 – Present

- Surveyed stratified map grids for potential archaeological dig sites and assessed locus point confidence levels
- Cataloged similarities between ancient grounds (pukaras) to designate regional clusters for follow-up research
- Currently performing an analysis of GeoPacha survey results, with a focus on the distribution of Andean pukaras

### Food Service Attendant – UPMC Shadyside Hospital

Jun 2018 – Present

- Responsible for inventorying pantry supplies, preparing and delivering patient meals, and kitchen sanitization

### Dishwasher and Prep Cook – Shannopin Country Club

Apr 2018 – Jul 2020

- Responsibilities included basic cooking duties, kitchen sanitization, and garbage disposal

### IT Managing Associate – Perfect Fit Canines

May 2017 – Aug 2018

- Unofficial technical officer for the redesigning of the company website and the handling of 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, recycled specialty event site files, and refactored website

## Education

### University of Pittsburgh

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

Graduation: Dec 2021

Major GPA: 3.14

**Extracurriculars:** Pitt Varsity Marching Band - Drumline, Pitt Robotics & Automation Society, Pitt Computer Science Club

**Relevant Coursework:** Data Structures, Discrete Structures for Computer Science, Algorithm Implementation, Computer Organization and Assembly Language, Introduction to Systems Software, Intermediate Programming in Java, Formal Methods in Computer Science