

VIJAYASAI R. SOMASUNDARAM

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Experience with cloud-based apps and algorithmic application development
Attitude to work hard, learn and grow into a better engineer from every experience
Looking for opportunities to explore new challenges and gain hands on experience in new environments

EDUCATION

University of Florida - Bachelor of Science in Computer Science Gainesville, FL
GPA: 3.85/4.00 SAT: 1580/1600 May 2025
Involvement: Dream Team Engineering, Software Engineering Club, Data Science Institute, Society of Software Developers, Association of Computing Machinery

SKILLS

Languages: C++, Python, Java, JavaScript, SQL, Go, MATLAB
Tools/Other: React, Node, Git, Amazon Web Services, Django, Docker, Unity, JIRA, Agile
Certifications: Amazon Web Services Cloud Practitioner

EXPERIENCE

Lutron Electronics Philadelphia, PA
Software Engineering Intern May 2022 - Present

- Migrated app code for certain Lutron services to the cloud environment using **AWS SDK** and **Go**
- Implemented solutions using efficient architecture utilizing **NoSQL** databases and **Rest APIs**
- Delivered a rollout plan and quality assurance framework in **Gherkins** to maintain integrity throughout migration
- Reduced user set-up time by **95 percent** with projections of a **100 thousand user hours** saved

ADSC Incorporated – CREATE-X Georgia Tech Atlanta, GA
Co-Founder and Software Developer Jan 2022

- Developed an application using **Python** and **React** to improve seller productivity within the ecommerce industry
- Automated multiple parts of seller side labor utilizing external **APIs** and **Amazon Cloud Solutions**
- Expecting a **75 percent** increase in productivity resulting in **100 hours** saved per customer

PROJECTS

Center for Safety, Simulation, and Advanced Learning at UF Gainesville, FL
Automated Doppler Mentoring System Jun 2021 – May 2022

- Developed a novel algorithm to detect arterial air embolisms automatically during medical procedures
- Utilized a Fast Fourier Transform in **Python** to create a baseline for frequency and amplitude of the heartbeat
- Created a simple **GUI** for medical professionals to be alerted when an arterial air embolism is detected
- Anticipating elimination human error in reading doppler data and **6 saved hours** per cardiothoracic operation

Shand's Hospital, Dream Team Engineering Gainesville, FL
Automated Milk Combination System Jan 2022 – May 2022

- Automated the process of combining breast milk donations using sort algorithms to meet nutrient requirements
- Designed a web app using **React JS** to analyze and sort the uploaded data to produce usable combinations
- Reduced labor by over **80 percent** saving over **400 hours annually** at a singular breast milk bank
- Expecting **20 breast milk banks nationally** to use the software in the next year leading to **8000 saved hours**

ACHIEVEMENTS

Dean's List - University of Florida May 2022
Benacquisto Scholarship Program - Top 1% Nationally - State of Florida Aug 2021
Presidential Scholar Nominee - Top 0.1% of Class of 2025 - Department of Education May 2021
Eagle Scout - Boy Scouts of America Apr 2021
NSDA Public Forum Debate - Top 50 Teams Nationally May 2020
250 Hours Bronze Volunteering Award - Broward County Jan 2020