

Jack Warner Russell

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Actively seeking **internship opportunities** to work on products and solve problems that will help people on a large scale. Passionately interested in **Machine Learning, IoT, and automation** roles in **software engineering**.

Education

Texas State University GPA: 3.92
Bachelor of Science in Computer Science

Expected December 2023
San Marcos, TX

Projects

JPMorgan Chase “Data for Good” Hackathon

Oct 2022

- Advised a nonprofit where to place their next youth homeless facility by analyzing needs and data across USA
- Selected Boston as the best location by identifying impactful metrics and training a K-means Clustering model
- Presented our key findings and visualizations to a panel of stakeholders in competition with 16 other teams

Raspberry Pi Temperature Sensor

Dec 2021 – Aug 2022

- Implemented an automated room monitoring system to handle bad data from the current room thermostat
- Saved \$500,000 of Research Servers by utilizing a raspberry pi, Python3, and open source libraries for database needs, and email notification functionality
- Created a web-based UI through an Nginx Server
- Designed automated services to run the temperature and humidity sensor on the raspberry pi

Computer Science Department Inventory Manager

Sept 2022 – Present

- Streamlined the management and audits of the Computer Science Department’s inventory by creating a web app
- Saved hours of time by creating an easy to use database with audit functionality through an HTML front end
- Implemented by using Python3, Django, Nginx, and Unicorn, SQLite, HTML, and Javascript

Leadership and Employment History

Instructional Assistant, TxSt Computer Science Infrastructure Team (San Marcos, Texas)

Jan 2022 – Present

- Provide IT services including maintaining hardware/software, account management, and server administration
- Led development projects including the Raspberry Pi Cluster, Temperature Sensor, and Net Boot Projects
- Facilitated a student outreach opportunity by mentoring students to develop their own Raspberry Pi Clusters

Google Student Developer Club Officer (San Marcos, Texas)

Oct 2022 - Present

- Empowering students to excel in technical interviews by creating a guide and workshop series
- Planning a conference to help new students adjust to Texas State University and connect them to resources

Lead Officer of the College Project, Phi Theta Kappa Honor Society (ACC Virtual)

Sept 2020 – May 2021

- Managed co-chairs, members, and administrators to create different Student Centers for the Spring 2021 Project
- Contributed to the Fall 2020 Project creating a module teaching Equity-Minded Student Leadership to potentially all of the 40,000 students at ACC through online modules
- Collected, compiled, and analyzed research through focus groups, surveys, and articles to supply the necessary data for both the Equity-Minded Student Leadership Project (Fall 20) and Student Centers Project (Spring 21)

Honors & Certifications

CodePath iOS Development Course Certification

Spring 2022

NASA STEM Engagement and Educator Professional Development Collaborative:

Spring 2022

XR Scene and Camera Control Certification

XR Physics and Ray Casting Certification

XR GUI and Deployment Certification

Texas State Dean’s List

Fall & Spring 2022

Terry O'Banion Student Technology Award Champion

Fall 2020

Technical Skills

Coding Languages: Experienced in C++, Java, Swift, and Python. Beginner in HTML and Javascript

Technologies: Kubernetes, JupyterHub, Xcode, OpenLDAP, Django, Docker, Linux, Raspberry Pi, Nginx, IPXE