

Joseph Orlando

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EDUCATION

- **Western Governors University** Awarded March 2020
Bachelor of Science in Software Development GPA 4.0

PROGRAMMING SKILLS

- **Languages:** Python, JavaScript (ES6), TypeScript, Java, Kotlin, R, HTML, CSS
- **Technologies:** React, Redux, Django, GraphQL, Node.js, Docker, Redis, SQL/NoSQL, Git, Azure, AWS

WORK EXPERIENCE

- **Innovation Software Engineer** - PLEXSYS Interface Products September 2020 - Present
React, Redux, Django, Apollo, GraphQL, Node.js, Docker Remote; Orlando, FL
 - Lead engineer in the development of a training-as-a-service platform that optimizes for agility and effectiveness through the use of a DevOps approach to learning
 - Developed an educational version control system that provides a course development pipeline for instructional designers that is currently being tested internally amongst **200+ employees**
 - Built and integrated all aspects of the training-as-a-service platform via a full-stack web application built with React, Django, GraphQL, etc.
- **Innovation Software Engineer Intern** - PLEXSYS Interface Products July 2020 - September 2020
Python, Java, C++, Scala, NASA Worldwind, Unity Remote; Orlando, FL
 - Created a contract opportunity retrieval and analysis tool which led to a **93% decrease** in review time
 - Developed a plugin that tracks user activity within PLEXSYS's simulation software and outputs a visual analysis for review

PROJECTS

- **Insights.md** HackTheU
React, Python, C, Google Cloud, Arduino, Raspberry Pi devpost.com/software/insights-md
 - **Best Overall, Best Hardware Hack**
 - Built a wearable device that automatically collects key vital data from patients, including heart rate, blood oxygen level, and body temperature, and displays them in a medical portal
 - Designed and built device, learned how to program for the Arduino and connecting sensors, and built the React web application in 36 hours while my team focused on backend development
- **Heart.ai** VandyHacks VII
React, Python, TensorFlow, OpenCV, Google Cloud, MATLAB devpost.com/software/heart-ai-rzsb76
 - **Best Overall, Best use of GCP, Best Hardware Hack, Best Data Hack**
 - Heart.ai uses artificial intelligence, machine learning, and our homemade electronic stethoscope to help doctors detect potential heart defects in patients they can't see in person
 - Developed front-end using React as well as an external application that detects patient heart rate via their webcam. It used OpenCV to detect the user's face and used the optical intensity of their forehead to determine heart rate
- **Learn.ai** ShellHacks
React, Redux, Python, C#, Rust, Azure Cognitive Services, Docker devpost.com/software/learn-ai
 - **Best Use of Azure for Social Good by Microsoft, Best Diversity Hack**
 - Assist students struggling with distance learning by utilizing facial recognition, video transcription and summarization to increase engagement, and boost attention span and productivity
 - Built React front-end and the ability for students to add videos, produce time-stamped notes, and send video data to Azure for audio transcription and text summarization
- **ModiBot** Personal Project
AWS, Python, GraphQL github.com/lienne/ModiBot
 - Discord bot created to automate server administration as well as help the development community with interview practice, hackathons, and general connectivity which is currently being used by **over 4,500 users**
 - Reverse engineered LeetCode's internal GraphQL endpoint to supply interview problems via a simple command