Joshua Stovall

+1 (480) 388-1725 | joshstovall@gmail.com | Chandler, Arizona

Experience

Multus Medical, LLC | Phoenix, Arizona
Lead Software Engineer | 02/2022 - Present

Multus Medical creates accurate, patient-specific anatomical 3D renderings and surgical animations that benefit personal injury patients. I develop and maintain the company's software infrastructure written in C++, Python, and Javascript.

- Manage container orchestration and deployment of our web applications and microservices in production and staging environments, using *Docker* and *Cycle.io*
- Maintain the company's cloud data infrastructure, which includes several million files hosted in S3 storage buckets, database administration using *MongoDB*, and *Orthanc* (PACs) DICOM servers
- Design and implement networking solutions for the Multus office, including a NAS file storage with distributed access via NFS and PostgreSQL database as a shared DaVinci Resolve database for use by our animation team
- Administrate secure network solutions through VPN connections to radiologist centers and attorneys configured on *IPsense* and *Microsoft Azure*
- Develop and maintain the company's proprietary 3D modeling software built in C++, designed specifically for Multus' patented radiologic segmentation technology
- Created a DICOM import plugin for Blender using Geometry Nodes that provides a one-click solution for our animation team to import MRI and CT scans, developed with *Python*
- Ensure HIPAA compliance across our software stack as the company's HIPAA Security Officer

High Octane Pictures, LLC | Scottsdale, Arizona
IT Coordinator & Developer | 02/2021 - 02/2022

High Octane Pictures is a film agency with distribution deals in over 80 countries across the world, over 19 million views on YouTube, and a catalog of hundreds of films streaming on services such as Netflix, Hulu, Amazon, AppleTV, and Fandango.

- Consolidated the company's film catalog from various CRM services into a single internal MySQL database. This facilitates the company to leverage their data with automation
- Developed a solution to automate and facilitate live streams on streaming platforms including Twitch, Youtube, and Facebook. Developed using *NGINX*, *FFMPEG*, and *RMTP* streaming protocol
- Created a microservice to programmatically generate metadata files for distribution to streaming platforms including Tubi, Redbox, and Roku, implementing their proprietary metadata schemas (JSON/XML/MRSS). Developed using *PHP* and *MySQL*
- Developed a closed caption language translation service. Provided a closed caption (.SRT file), it can translate the dialog into any language, ready for localized distribution. Built with *Google Cloud Translation* and *Nodejs*
- Created a company intranet web application for client uploads, asset management, financial reports, fulfilling deliveries, and HR purposes. Developed using *React*, Electron, *MongoDB*, and *Backblaze* cloud storage
- Developed a website for the company's online marketing presence showcasing their catalog of films where fans can watch trailers, read descriptions, and search the catalog. Content can be updated and modified from the intranet application. Created using *HTML*, *CSS*, *Javascript*, *PHP*, and *MySQL*

Education

Arizona State University

- **Bachelor of Arts** in Music with focus in Education and Technology
- Prominent coursework: Musical Microcontrollers, Musical Acoustics, Technology and Society, Digital and Hybrid Lab, Medial Literacy for Musicians, Composing for Film and Video, Environmental Biology

Skills

JavaScript, Node.js, React, Express.js, Docker, AWS, MongoDB, Python, C++, 3D Modeling, Linux, Google Cloud Platform, Full Stack Web Development, MySQL, HTML, CSS, Electron, Three.js, WebXR, Apache, C++, Azure

Links

[Personal Website](#) | [LinkedIn Profile](#) | [GitHub Profile](#) | [Instagram Profile](#)