
EXPERIENCE

Senior Lead Developer - AREN Investments.

Feb. 2021 – May. 2024

- Developed, built, supported, and administered multiple unique full-stack web applications using NodeJS and Angular.
- Built and designed a deployable Linux-based NVR with H.265 recording ,WebRTC-based streaming solution with PTZ control over satellite internet, periodic snapshotting, remote administration, and timelapse generation using NodeJS, Angular, and C++ with extensive libgstreamer, and libavcodec usage.
- Administered and managed multiple machine clusters utilized for 3d mapping, AI edge detection, and other generalized computing workloads.
- Deployed, utilized, and managed cloud infrastructure for WebRTC, load balancing, reverse proxying, and other generalized architecture used to support full-stack web applications i.e. Redis, Postgres
- Wrote an extensive web application/platform for managing LoRaWAN devices as well as viewing real-time and historical data using SvelteKit.
- Maintained an internal documentation wiki for all of our production and development applications.
- Lead a team of four mixed-experienced software engineers within multiple projects using semi-Agile methodology.
- Developed a handful of one-off bespoke solutions using Tibbo PLCs, Angular, NodeJS and similar.
- Built and designed an entire smart storage unit system with billing, physical credential automation, physical door access, cameras, and sensors.
- Co-managed a single web developer's efforts across multiple web sites.

Co-Op – Airplane Parts and Reliability – FedEx Express

Aug. 2019 – Dec. 2021

- Developed a handful of big data parsing solutions within Databricks.
- Learned how to deploy applications and services within Azure.
- Co-developed an Angular 12-based tool for data visualization for airplane reliability.
- Co-developed a NestJS-based backend for our data visualization web application.
- Managing a suite of Linux and Windows systems from an administration standpoint
- Helped build links from legacy Oracle databases to modern Azure databases
- Built a WINE-based API wrapper for a legacy 16-bit DOS application to run analysis on Boeing airplane engines.
- Stood up CI pipelines for our backend and front end web applications
- Maintained a documentation wiki for our Databricks/Azure services and virtual machines
- Built a file management API for sharing reports and visualizations for our web application
- Created PowerBI reports linking to Azure databases

Internship – FedEx Express Services

Summer of 2019

- Built and deployed an Angular web application
- Built and deployed a Spring backend on Pivotal Cloud Foundry
- Learned how to deploy and monitor an application with Splunk

Secondary Lead Developer – ER2, Memphis, TN

2017 – 2019

- Helped build and design a Ruby on Rails web application to facilitate laptop deployment

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- Helped build and launch a public facing PHP/Symfony web application facing major AZ healthcare providers.
- Built and designed a solution to test, image, and inventory macOS machines and equipment
- Developed an iOS application to test the hardware of iOS devices
- Built a suite of Wordpress plugins with PHP
- Responsible for most site-wide CSS changes in our internal web applications
- On-site technical support for servers, printers, routers, switches, etc

Technician – ER2, Memphis, TN

2016 – 2017

- Tested a wide range of technical equipment, such as: servers, printers, routers, switches, drive shelves, WAPs, iOS devices, Android devices, macOS machines
- Built a DeployStudio suite with end-to-end scripts talking to a custom inventory web application
- Helped design a custom inventory web application

I.T Assistant – New Hope Christian Academy, Memphis, TN

2016, 2017

- Chromebook deployment
- Windows deployment
- On-site technical support for servers, printers, routers, switches, etc

FREELANCE

I.T Assistant – Fellowship Memphis, Memphis, TN

2015-2016

- Built a solution to facilitate backups of important data
- Managed a macOS Server hosting ~20 people
- Deployed meshing wireless APs hosting 20-120 people

EDUCATION

Bachelors of Computer Science

University of Memphis, Memphis, TN

2021

TECHNICAL EXPERTISE

Software and Tooling:

- nginx
- git
- Docker
- Vagrant,
- Postgres
- MySQL
- Redis
- Webpack
- ffmpeg
- gstreamer

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Programming Languages (fluent):

- Bash/ZSH
- Python 2/3
- PHP 7+,
- Swift,
- Objective-C,
- C/C++
- Java 1..8+
- HTML:
 - HAML
 - Pug/Jade
 - MJML
 - Svelte
- (S)CSS,
- Javascript/Typescript
- HTMX

OTHER

Eagle Scout – Boy Scouts of America

2017