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Alex Sparrow

[LinkedIn](#)
[GitHub](#)

Skills: Python, JavaScript, C/C++ on embedded systems, Ansible, Docker, Kubernetes, Proxmox, Hyper-V, AWS, Soldering

Professional Experience

Britelite Immersive | Backend Developer

2019-present

- Implementing backend infrastructure for interactive installations including RESTful python APIs
- Planning, assembling, and provisioning server hardware and managing hypervisor and virtual machine architecture on Proxmox and Hyper-V
- Automating deployment of installation components onto Linux and Windows servers, virtual machines, and AWS instances utilizing Ansible, Docker, and Kubernetes

Modbot | Assembler and Machinist

2018-2019

- Soldering and mechanical assembly of sophisticated servos and internal brakes
- Design and implementation of automated testing via shell scripting and Python programming
- Fabrication of custom cables and on-demand customization and correction of components as specified in technical schematics

DJ TechTools | Electronics Assembly Technician

2017-2018

- Assembly and repair of MIDI controllers including extensive soldering and some rework
- Loading firmware using command-line tools and custom programming hardware

Scalable Press | Software Engineer

2016

- Designing reusable React components for customer-facing retail website
- Implementing global state management with Redux for improved app data organization
- Optimizing asynchronous back-end operations in Node.js to speed up response time

Volunteer Experience

Gray Area | Code Immersion Teaching Assistant

2018

- Assisting students with core JavaScript programming concepts
- Supporting instructors in a variety of art-centered technical material including physical computing, P5.js, web audio, A-Frame, and projection mapping

Education

Hack Reactor	Advanced Software Immersion Program	2016
Drexel University	M. S. Cellular and Molecular Biology, GPA: 4.0	2010
C. S. U. Monterey Bay	B. S. Environmental Science Systems and Policy Cum Laude with Distinction in the Major	2005

