ALEX GARDINER

SALEM. MA

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WWW.ALEX-GARDINER.COM · WWW.GITHUB.COM/AUGARDINER

SKILLS

- Languages: Python, Flask*, HTML/CSS, Javascript*, React* •
- Data: Postgres, MySQL, Pandas, Matplotlib/Plotly, Reporting Tools i.e. Periscope
- DevOps/Tools: Git, Linux/Bash*, Docker, AWS*
- Hardware: Additive Manufacturing, CAD, Machining, Tooling
- Nontechnical: Project Management/Agile, Technical Writing, Customer Service, Presentation, Graphic Design

EXPERIENCE

Markforged

Senior Data Systems Engineer

- Built web applications used in manufacturing to improve operator effectiveness and product traceability
 - Maintained MySQL database to store manufacturing data 0
 - Used Inductive Automation's Ignition platform to create polished UIs 0
 - Analyze manufacturing data to enable analysis and advanced decision making
 - Developed a system of batch processing jobs to transform data into digestible form 0
 - Used combination of SQL gueries and Python to vizualize/analyze data
- Wrote firmware running on manufacturing equipment to enable real-time guality and inventory control
 - Contributed to embedded Python program that measures and analyzes filament diameter timeseries data • Wrote unit tests for firmware
- Maintained IT/OT infrastructure and built DevOps tooling to boost system reliability and developer efficiency
 - Managed series of Linux servers and containers that host/run all facility services 0
 - Used Docker to create a portable development environment
- Led digital transformation efforts to improve factory intelligence
 - Used OPC to integrate with factory equipment and automate telemetry data collection
 - Built prototype Industrual IoT infrastructure centered around MQTT

Technical Solutions Engineer II

- Provideed end-user support for composite additive manufacturing systems to improve customer experience
- Integrated data into support process by analyzing existing sensor device data
- Deployed app to AWS that parses device logs and displays pertinent data

Folsom Custom Skis

Process Engineer

Denver. CO

February 2019-March 2022

October 2016-October 2018

- Developed custom ski geometry and material construction
- Advanced tooling and manufacturing techniques to increase and streamline production •
- Built a digitally integrated manufacturing database to increase and track production pace
- Developed new website to increase online presence and sales

Charles Riverboat Company

Ship Captain

Hold USCG Issued 100 Ton Master License and TSA Issued TWIC Security Clearance

PROJECTS

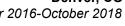
- Click: An app for musicians that visualizes progress w/ a built-in Metronome (Flask, Typescript, and React) •
- Hot Stuff: A data-oriented app that visualizes popular music trends (Flask and React)
- Prints Albert: A virtual 3D Printer that prints "parts" from a user-managed library (Express.js, Javascript, HTML)

EDUCATION

University of Denver – BS, Mechanical Engineering

2016

2011



Cambridge, MA

June 2010-Present (P/T)

Waltham, MA

* Familiar

March 2022-November 2023