

ALEX GARDINER

SALEM, MA

(617) 755-8950 · AGARDINER07@GMAIL.COM

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

SKILLS

* Familiar

- **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
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EXPERIENCE

Markforged

Waltham, MA

Senior Data Systems Engineer

March 2022-November 2023

- Built web applications used in manufacturing to improve operator effectiveness and product traceability
 - Maintained MySQL database to store manufacturing data
 - Used Inductive Automation's Ignition platform to create polished UIs
- Analyze manufacturing data to enable analysis and advanced decision making
 - Developed a system of batch processing jobs to transform data into digestible form
 - Used combination of SQL queries and Python to visualize/analyze data
- Wrote firmware running on manufacturing equipment to enable real-time quality 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
 - 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 Industrial IoT infrastructure centered around MQTT

Technical Solutions Engineer II

February 2019-March 2022

- Provided 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

Denver, CO

Process Engineer

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

Cambridge, MA

Ship Captain

June 2010-Present (P/T)

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

University of Denver – BS, Mechanical Engineering

2016

Holderness School – High School Diploma

2011