

Jonas Kazlauskas

Mission Driven Software Engineer

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[portfolio](#) [github](#) [linkedin](#)

Education

Bachelor of Science in Engineering with Computing Olin College of Engineering

- 4.0 GPA, Graduating Dec. 2023
- Co-Director, Catalyst Entrepreneurship Club
- Automation Lead, Olin Hydroponics

Skills

Soft: Independent, self-directed, proactive communicator, empathic, mission motivated, thrives in fast paced environments
Languages: Python, Go, C++, Javascript, SQL, HTML/CSS, C
Packages: FastAPI, Pandas, Flask, React, PlatformIO
Tools: AWS, Ansible, Docker, Kubernetes, Git, Bash, Github Actions, Linux

Experience

Automation Lead, Founder

[Olin Hydroponics](#)

Aug 2020 - Present

A team of 15 researching AgTech and building an automated hydroponics garden on campus

- Designed and deployed a full-stack data pipeline for controlling and monitoring our garden, processing and acting on 1500+ sensor data points/day
- Data API in Javascript using GraphQL, MySQL, and Express deployed with Docker Compose: [link](#)
- A C++ control loop for interfacing with sensors and actuators: [link](#)
- High level controller for version 2 of our automation architecture written in Go: [link](#)

Software Engineering Intern

[Heirloom Carbon](#)

Summer 2022

Fifty person startup building cost-effective Direct Air Capture, worked on their software team of 4

- Refactored an internal data provider in Go that aggregates and standardizes over 15,000 environmental data points per day from 8+ sources (external APIs, local sensors), reducing complexity and increasing maintainability
- Designed and deployed an alerting system in Go that monitors AWS Lambda functions and reports errors via slack messages, revealing over 10 bugs upon deployment
- Created relational database schemas for a generic sensor table structure to support future system sensing

Solutions Engineering Coop

[Indico Data](#)

Remote Spring & Summer 2021

Thirty person startup developing AI for enterprise document processing, worked on the solutions engineering team of 5

- Developed an internal and customer facing library in Python to abstract common operations: [link](#)
- Wrote and tested ETL data pipelines using Python, pandas, and an Internal API for customers

Software Engineering Intern

[Singularity Energy](#)

Remote Summer 2020

Two person startup helping businesses decarbonize from grid emissions, worked solo on a new potential product

- Extended the data platform and built a new product that supports 10 active users using Python, Flask, SQLAlchemy, Bootstrap
- Researched market opportunity of new product; 40 interviews with 25 people over 6 weeks
- Presented a recommendation of product direction for the next 9 months

Projects

- Winner of 2023 [DeisHacks hackathon](#) for social good. Created a novel solution to empower and humanize the unhoused population that goes to the Community Day Center of Waltham in Waltham, MA: [link](#)
- Plant detection and measurement in images using Python, OpenCV, PlantCV: [link](#)
- Plant image storage/retrieval API in Python with FastAPI deployed with Docker and Ansible: [link](#)
- Fullstack cup noodle vending machine:
 - Basic Python FastAPI API for receiving and queuing customer orders: [link](#)
 - ESP8266 C++ web server handler to get noodle orders written using PlatformIO: [link](#)
 - C++ X-Y gantry controller to drive the vending machine; coordinating movement of 7 motors: [link](#)
- Git imitation version control system written in C: [link](#)
- Portfolio website written with React, HTML, CSS: [link](#)