

Jonas Kazlauskas

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

Languages: Python, Go, C++, Javascript, SQL, HTML/CSS, C

Frameworks/Packages: React, Flask, REST APIs, Go kit, ROS, Pandas, PlatformIO

Software: AWS, Docker, Kubernetes, Git, Bash, Github Actions, Linux

Experience

Automation Lead, Founder

[Olin Hydroponics](#)

Aug 2020 - Present

- Lead a team of 15 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
 - Python Flask REST data API deployed on AWS to serve all our logs, sensor readings: [link](#)
 - Version 2 of our data API in Javascript using GraphQL and Express: [link](#)
 - A C++ control loop for interfacing with sensors and actuators: [link](#)

Software Engineering Intern

[Heirloom Carbon](#)

May 2022 - Aug 2022

- Refactored an internal data provider in Go that aggregates and standardizes over 15,000 environmental data points per day from 8 + sources (external APIs and 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/day in our current deployment
- Created data models for a generic sensor table structure to support future system sensing

Solutions Engineering Coop

[Indico Data](#)

Jan 2021 - Aug 2021

- 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](#)

Jan 2021 - Aug 2021

- 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

- Portfolio website written with React, HTML, CSS: [link](#)
- Fullstack cup noodle vending machine:
 - Basic Python FastAPI API for receiving and queuing customer orders: [link](#)
 - ESP8266 C++ web server handler to get API orders written using PlatformIO: [link](#)
 - C++ X-Y gantry controller to drive the vending machine; coordinating movement of 7 motors: [link](#)
- Reinforcement Q-learning in Python using OpenAI's Gym library: [link](#)
- Git imitation version control system written in C: [link](#)