

# 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
- Founder, Skate Club
- Member, Sodium Improv Troupe

## Skills

**Personal:** 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, NumPy

**Tools:** AWS (lambda, compute, API gateway, kendra), Git, Bash, Github Actions, Linux, Ansible, Docker, CI

## Experience

### NSF Research Fellow

[Michigan Technological Institute](#)

Summer 2023

Self-directed research project in collaboration with the Keweenaw Bay Tribal Fish Hatchery focused on creating an automated lighting system to mimic sunrise and sunset inside the hatchery: [link](#)

- Conducted user interviews to gather project requirements; researched and purchased electrical components
- Developed firmware in C++ following the model-view-controller framework to enable user control and automation
- Presented our work at the 2023 Michigan Tech University Summer Undergraduate Research Symposium

### Automation Lead, Founder

[Olin Hydroponics](#)

Aug 2020 - May 2023

Managed 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, storing and acting on 1500+ sensor data points/day
- Mentor the development of an updated data API written in Python, FastAPI and deployed serverless in AWS: [link](#)
- Develop a data API in Javascript using GraphQL, MySQL, and Express deployed with Docker Compose in AWS: [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

### 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, 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

- Senior capstone fullstack chatbot to assist Pfizer internal in providing access to dense drug information (NDA)
- 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 image storage/retrieval API in Python with FastAPI deployed with Docker and Ansible: [link](#)
- Portfolio website written with React, HTML, CSS and deployed with Docker and Ansible: [link](#)