

# Michael Pappas

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Fullstack web developer with experience in Javascript and Python. Background in product design and building automation controls. A chronic tinkerer and passionate about understanding how everything works in the digital and physical realms.

## TECHNICAL SKILLS

**Languages** - Javascript, Python, SQL, HTML, CSS

**Frameworks / Tools** - Node, Express, Flask, React, Cron, SQLAlchemy, Postgres, Unittest, Jasmine, Docker

## SOFTWARE ENGINEERING EXPERIENCE

### Software Engineer Intern

February 2023 - March 2023

#### *Numbers API*

Remote

- Transitioned a widely used API (100k+ requests per month) from a vanilla JavaScript to a modern, RESTful API utilizing Agile development methodologies
- Developed Flask backend with 100% test coverage
- Implemented and tested Flask-Limiter for rate limiting separated by endpoint, allowing for limiter toggling for endpoint testing
- Wrote a script to migrate previous API data from JSON into SQL using NLTK to correctly format sentence fragments into fact statements.
- Leveraged Flask-Mail and CronJobs to send a weekly email of new facts added to the database to subscribers
- Created dev environment containers using Docker to quicken development time for other members of the team

## TECHNICAL PROJECTS

### Pixly

Live Demo | [Github\(FE\)](#) | [Github\(BE\)](#)

- Created image processing backend to upload images to AWS S3 using Flask backend
- Extracted image EXIF data and stored in database with SQLAlchemy relationships to allow for quick filtering, extracting GPS data if available
- Used Pillow library to allow frontend users to resize and color adjust images before uploading to S3 and create a thumbnail of each uploaded image to reduce load times.

### Warbler

Live Demo - [Github](#)

- Utilized Flask and SQLAlchemy to make a Twitter clone
- Managed database many to many and one to many relationships to efficiently link messages, users, followers, and likes tables together.

### Jobly

Live Demo | [Github\(FE\)](#) | [Github\(BE\)](#)

- Built job application app using React frontend and Node, Express, Postgres backend utilizing TDD with 100% coverage
- Authenticated API requests with JWTs and JSONSchema
- Utilized auto-login for return users with local storage and React state hooks.

## ADDITIONAL WORK EXPERIENCE

### Building Automation Controls Engineer

*Sunbelt Controls*

March 2018 - June 2022

Pleasanton, CA

- Built Niagara 4 and AX databases based on provided submittals with Distech controllers to engineered specifications
- Programmed Bacnet devices through GFX and Niagara wiresheets in compliance with sequences
- Coordinated project timelines with subcontractors, clients, and commissioning agents to deliver platforms to spec in a timely manner.

### **Production Engineering**

March 2018 - June 2022

*Jittery Johns Coldbrew*

Berkeley, CA

- Quadrupled production capacity by streamlining processes with the same amount of staff and production space
- Designed, built, and procured automated production line equipment to suit unique production and food safety needs.
- Interfaced with co-packers and food scientists to ensure product consistency, expected shelf life, and quality.

### **Fiber Optic Technician/Network Engineer**

July 2013 - August 2014

*Last Mile Research*

St. Helena, CA

- Procured fiber optic and networking equipment, routinely coming 50% under budget
- Designed fiber network distribution, emphasizing ease of network maintenance and future expansion
- Pulled and fused over 1 mile of fiber through to over 35 buildings through new and existing conduit

### **EDUCATION**

#### **Rithm School**

2022 - 2023

Full Stack Development Bootcamp

San Francisco, CA

#### **The School of the Art Institute of Chicago**

2010 - 2013

BFA in Product Design

Chicago, IL