

Alex Krenitsky

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EDUCATION

Columbia University, Teachers College

Master of Arts in Education

New York, NY

Jan. 2018 – May 2019

Boston Architectural College

Bachelor of Arts in Architecture

Boston, MA

Sep. 2008 – Jan. 2013

PROJECTS

Airboo | Python, FastAPI, React, Apache Airflow, PostgreSQL, Docker, Git, Nginx

Dec. 2022 – Present

- An app for visualizing and comparing air quality data across the U.S.
- Built an ELT data pipeline using Apache Airflow to pull data from 1,000+ monitoring stations
- Created an API using the FastAPI framework, and designed containerized tests for E2E/integration testing using Docker
- Designed a fast and fully responsive front end with React
- Used Github Actions for a CI/CD pipeline that automated linting, testing, building/pushing images, and deploying to production on a Linode VPS

Pet-Watch | Python, Flask, PostgreSQL, Docker, Docker, HTML, CSS, Git, Nginx

June 2022 – Aug 2022

- Web app for monitoring home climate and pet well-being
- Automated a python script on a Raspberry Pi to create temperature data readings and post them to the database via an API built with Flask
- Built a front end for visualizing data using Flask, HTML, and CSS
- Developed using Docker containers and deployed on Linode VPS using Docker, Gunicorn, and Nginx

EXPERIENCE

Full-stack Software Engineer

Freelance

Feb. 2023 – Present

Brooklyn, NY

- Building dynamic websites and apps using Python, Javascript, FastAPI, Flask, Postgresql, React, HTML, CSS
- Writing python scripts to automate or solve client problems
- Maintaining clean, version controlled code bases

Computer Science/ESL Teacher

Academy for Excellence in Leadership

Sep. 2019 – June 2022

Brooklyn, NY

- Designed and implemented an intro level curriculum covering fundamentals of computer science
- Created and led engaging coding projects using the Scratch graphical programming language
- Established trusting relationships with student families for continued learning success

Resident Teacher

The Facing History School

Sep. 2018 – May 2019

New York, NY

- Designed culturally-responsive curriculum tailored to student needs and abilities
- Worked with diverse student population including non-native English speakers, and special needs students
- Maintained close relationships with student families and caregivers

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks: Flask, FastAPI, React, Apache Airflow

Developer Tools: Git, Docker, Github Actions, VS Code, Visual Studio, PyCharm, Nginx, Linode, VIM, Linux (Arch, ubuntu)

Libraries: SQLAlchemy, Pandas, Matplotlib, Selenium, Beautiful Soup, Pytest, Jest