



Alex Krenitsky

Full-Stack Software Engineer

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Experience

Freelance Software Engineer

February 2023 - present

- Building dynamic web applications using Python, Flask, Javascript, React, HTML, CSS.
- Designing, building, testing robust APIs.
- Using Docker for containerized development and deployment.
- Maintaining clean, version controlled codebases.

Computer Science/ESL Teacher – Academy for Excellence in Leadership

September 2019 – June 2022, Brooklyn, NY

- Built a computer science curriculum covering fundamentals of computer programming.
- Designed and led engaging, open-ended CS projects.
- Maintained strong relationships with student families.

English Teacher – Hermanos Tora Bilingual School

October 2016 – June 2017, Madrid, Spain

- English language instruction for 4th grade students.
- Planned and executed activities for English, Science, and Social Studies classes, using clear objectives and assessments for language learning.

English instructor – Avalon English

February 2015 – March 2016, Cheongju, South Korea

- Led ESL classes for students aged 6-14, adapting lessons to student needs and assessing progress.
- Conducted formal language assessments in English speaking, listening, reading, and writing.

Architectural Assistant – MIT Lincoln Laboratory

January 2012 – February 2014, Lexington, MA

- Developed, reviewed, and shipped construction documents for new science labs.
- Developed office standards for CAD documents.
- Planned and coordinated architectural design with other engineering team requirements.

Skills

Programming Languages

Python, Javascript, SQL, HTML, CSS

Frameworks & Libraries

Flask, SQLAlchemy, Postgres, Pandas, Apache Airflow, React, Pytest.

Tools & Platforms

Git, Docker, Webpack, Jest, Linode, Nginx, Linux

Projects

Pet-Watch: Home Temperature Monitoring App

pet-watch.ak0.io repo

Web app for monitoring home temperature climate and pet well-being. Built with Flask, Postgres, SQLAlchemy, and deployed on a VPS with Nginx and Docker.

Airboo: Air Monitoring App

airboo.ak0.io repo

Air quality monitoring app. Allows users to upload air-quality data and compare it with government data. Used Apache Airflow to build an ELT pipeline. Postgres and SQLAlchemy for storing and querying data. API built and documented using FastAPI. Front end built with React.

Education

Teachers College, Columbia University

Masters in Education, 2018 - 2019

Boston Architectural College

Bachelor of Design studies, 2007 - 2013

Certifications/Courses

- 100 Days of Code: The Complete Python Bootcamp
- The Odin Project: Fullstack Javascript
- Princeton University: Algorithms Part I
- Build a Modern Computer from First Principles: From Nand to Tetris

Interests

Running marathons, hiking/backpacking, ceramics, literature