Alex Krenitsky
Full-Stack Software Engineer

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Experience

Freelance Software Engineer
June 2022 - present
– Building dynamic web applications using Python, Flask, Javascript, React, HTML, CSS.
– Designing robust APIs and data pipelines.
– 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
June 2011 – February 2013, Lexington, MA
– Developed, reviewed, and shipped construction documents for new science labs.
– Developed standards for officCAD 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, Airflow, Selenium, Beautiful Soup, Matplotlib, React.

Tools & Platforms
Git, AWS, Nginx, Docker, Webpack, Jest, Linode, Linux

Projects

Pet-Watch
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.

Air Monitoring App
repo
Air quality monitoring app. Users can upload air-quality data and compare it with government data. Used Airflow to build a robust ETL pipeline. Postgres and SQLAlchemy for storing and querying data. API built and documented using FastAPI. Front end built with Javascript, HTML, CSS.

Education

Teachers College, Columbia University
Masters in Education, 2018 - 2019

Boston Architectural College
Bachelor of Design studies, 2007 - 2013

Certifications
– 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