

Alex Krenitsky

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TECHNICAL SKILLS

Languages: Go, Python, JavaScript, Bash, SQL, HTML, CSS

Developer Tools: Kubernetes, Docker, Terraform, Git, Linux, AWS, GCP, Linode, Vim

Frameworks/Libraries: Flask, React, REST APIs, FastAPI, NGINX, SQLAlchemy, Pytest, Airflow, Pandas

EXPERIENCE

Software Engineer I - Platform Team

November 2023 – Present

Bitly

Oakland, CA - remote

- Spearheaded large-scale migration of Python 2 to Python 3 codebase, maintaining backwards-forwards compatibility during transition phase.
- Orchestrated zero-downtime migration of critical internal message queue service, written in Golang, from virtual machines to Google Kubernetes Engine, which improved scalability and reliability of the service.
- Refactored internal application monitoring and charting tool written in Golang, to build data plots internally, allowing for faster renders and removal of external dependencies.
- Provisioned infrastructure resources in GCP and AWS via Terraform, managed DNS records with Octodns.
- Mitigated operational issues, fixed production bugs, joined war rooms responding to incidents, unblocked other engineers troubleshooting devops issues, and participated in weekly incident report meetings.

Software Engineer Intern - Platform Team

June 2023 – November 2023

Bitly

Brooklyn, NY - remote

- Expanded disaster recovery system, enabling new Bitly product deployment across both AWS and GCP using Go, NextJS, and Nginx, improving site reliability and uptime metrics
- Improved CI/CD pipeline by creating a new group of hosts to run tests with Jenkins (Terraform)
- Upgraded DevOps utilities from Python 2 to Python 3, improving internal libraries with numerous bug fixes

Computer Science/ESL Teacher

Sep. 2019 – June 2022

Academy for Excellence in Leadership

Brooklyn, NY

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

PERSONAL PROJECTS

Jupiter Coffee | *Javascript, React, Node.js, Docker*

Dec. 2023 – Jan. 2024

- A mock coffee shop storefront, created as exploration of server side rendering techniques
- Optimized for fast rendering using SSR, hosting assets on a CDN, and serving assets based on screen size.
- Designed the website to be fully responsive for all devices

Airboo | *Python, FastAPI, React, Airflow, PostgreSQL, Docker, Nginx*

Nov. 2022 – Dec. 2022

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

EDUCATION

Columbia University, Teachers College

New York, NY

Master of Arts in Education

Jan. 2018 – May 2019

Boston Architectural College

Boston, MA

Bachelor of Arts in Architecture

Sep. 2008 – Jan. 2013