Alex Krenitsky

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Technical Skills

Languages: Go, Python, JavaScript, Bash, SQL, HTML, CSS
Developer Tools: Kubernetes, Docker, Terraform, Git, Jenkins, Linux, AWS, GCP, Linode, Vim/Neovim, Nix
Frameworks/Libraries: Flask, React, REST APIs, FastAPI, NGINX, SQLAlchemy, Pytest, Airflow, Pandas

Experience

Software Engineer I - Platform Team　　　　November 2023 – December 2024
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*