

Alex Kudlick

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Summary

Architect, Full-Stack Engineer, Technical Leader

Skills

Languages: Java, Python, Javascript

Technologies: RESTful Web Services in Dropwizard and Django, Cloudfoundry, Terraform, AWS, Airflow, React, Elasticsearch, Superset

Professional Experience

Pax Labs, Inc. **11/18 - 5/22** *Lead Platform Engineer*

Pax Labs is an award winning consumer cannabis company.

As the first backend engineer hired on the software team, I:

- Built cloud infrastructure and APIs to create a service-oriented backend for partner-facing, internal, and consumer-facing products
- Managed data pipelines in airflow for product analytics, reporting, and integration into the consumer products - including the pipeline that parses Certificate of Analysis Data provided by partners to show chemical composition to consumers
- Automated business processes by integration with Acumatca
- Managed infrastructure for our internal BI tool, Superset
- Built internal web tools for managing consumer-facing data
- Built the consumer-facing search and recommendations backend with Elasticsearch in AWS

Rescale, Inc. **8/14 - 10/18** *Senior Full Stack Engineer/Development Team Lead*

Rescale runs HPC simulation workflows in the cloud.

- Architected and built Java backend managing customer VMs and workloads
- Handled concurrent execution across hundreds of nodes
- Worked up and down the stack using Django REST APIs, React, Angular, Java
- Led weekly meetings on best practices
- Promoted to team lead of a team of three junior engineers

Shop It To Me, Inc. **11/12 - 8/14 Software Engineer**

Shop It To Me is an online personal shopping assistant, providing an email that alerts users when their favorite brands go on sale in their size.

- Ruby on Rails web development in agile product cycles
- Implemented performance optimizations using SQL and algorithm analysis
- Used HTML 5, CSS 3, and Ember.js to build rich UIs
- Led discussions on best practices and object oriented design
- Managed virtual servers on Amazon EC2 with Chef for extra processing

Public Library of Science **12/10 - 11/12 Software Engineer**

PLOS is a nonprofit scientific journal that publishes research online, with open access content rights.

- Helped lead the conversion of the website to a MySQL database with Hibernate
- Designed MySQL database schema
- Used JDBC and Spring-JDBC to access database with SQL
- Wrote backend queueing systems using Apache Camel and ActiveMQ
- Followed object oriented patterns for readable, reusable code
- Used Python scripting to automate tasks

City Car Share **08/10 - 12/10 Application Developer**

City Car Share is a Bay Area nonprofit dedicated to reducing the number of cars on the road through carsharing.

- Developed a ridesharing java web application with Hibernate, Struts2
- Integrated the application with Google Maps Javascript API
- Used jQuery to create interactive web pages

Brighterion, Inc. **07/09 - 07/10 Data Analyst**

Brighterion provides real-time credit card fraud risk analysis.

- Used machine learning techniques to analyze credit card fraud trends
- Wrote Oracle SQL queries to
- Used command line Unix/Solaris scripts to automate tasks

Patents & Education

Integrated Multiprovider Compute Platform

- [Patent #10.387.198](#) 2019-08-20
- [Patent #11.010.194](#) 2021-05-18

- [Patent #11,263,045](#) 2022-03-01

UC Berkeley Mathematics BA, May 2009

- Graduated with High Honors
- Wrote a senior thesis, "Introduction to Maharam's Problem"

UC Berkeley Stats 132 Intro to Machine Learning, Summer 2011

- Evening/Night class on Machine Learning basics
- Used R and Python to classify scientific articles into subjects