

# Alex Kudlick

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## Summary

Architect, Full-Stack Engineer, Technical Leader

## Skills

**Languages:** Java, Ruby, Javascript, Python, R

**Frameworks/Libraries:** Django, React, Angular, AWS, Ruby on Rails

## Professional Experience

Pax Labs, Inc.

**11/19 - Present**

### **Senior Backend Engineer**

*Pax Labs creates premium cannabis vaporizers as part of its mission to establish cannabis as a force for good*

- First backend engineer hired to build a system managing cannabis data
- Developed a modular microservice backend system using Java 9 modules

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

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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

## **Education**

### **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