

Experience

Poshmark

Software Engineer Intern, Growth Team

Redwood City, CA
June 2022 - present

- Built React app to take in votes from Amazon Mechanical Turk workers on listing matches as part of an effort to categorize listings more accurately. Data served from and recorded to PostgreSQL database.
- Created data pipeline from ElasticSearch→React App→AWS S3→AWS Redshift→Mongo (core database). Essentially glued these different compartments together using a combination of SQL scripts (PSQL, Redshift), Rake tasks (Ruby), Jaketasks (Javascript).
- Created custom SQL tables to analyze voter data in an effort to find irregularities and pinpoint accuracy threshold to accept listing matches.
- Served as generalist in role, providing support along the full technology stack including writing support Rake tasks for QA to use, optimizing query script performance, creating data reports, and working heavily on UI components.

Technologies: Ruby (Rails, Rake tasks), JavaScript (React), SQL (Postgres, Redshift), Elastic Search, Amazon Web Services (S3, EC2, Mechanical Turks)

Zuora

Software Engineer Intern, Tools Team

Redwood City, CA
January 2022 - June 2022

- Designed, wrote and deployed API Gateway end-to-end in Go to automate infrastructure provisioning. Integrated with MongoDB database to store request records.
- Wrote Python script that generates Go code for new endpoints in API Gateway. Wrote Shell script protocol that pushes generated code to Github so new endpoint is available on production.
- Created Spinnaker pipeline that spins up manually configured Istio pods into all Zuora domain Kubernetes clusters using custom Helm charts.
- Wrote Boto3 scripts in Python to efficiently move data from AWS S3 to Hive Metastore. Dockerized scripts which ran on a Kubernetes cluster using an Argo CronWorkflow.

Technologies: Go, Docker, Kubernetes, Spinnaker, Argo, Python, Istio, Shell, Amazon Web Services (S3, Athena), Google Cloud Platform (VM Instances, Instance Templates), Microsoft Azure (App Service, Groups)

Education

University of California, Berkeley

B.A., Computer Science and Integrative Biology, GPA: 3.76

Berkeley, CA
2019 - 2022

Relevant Coursework: Data Structures, Efficient Algorithms and Intractable Problems, Machine Structures, Structure and Interpretation of Computer Programs, Artificial Intelligence, Software Engineering, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations

Projects

Go Chess Engine

August 2022

- Wrote Chess engine from scratch in Go. Relies on Minimax algorithm with move ordering, board state represented as bitboard. *Check out code:* github.com/pedraamn/Go-Chess-Engine
- Wrote Chess front-end from scratch in Javascript (React) using functional components. Fully implemented all Chess game logic and designed to be compatible with browsers. *Check out code:* github.com/pedraamn/React-Chess-Frontend
- Rough design overview: Go engine logic lives in an AWS Lambda function. React front-end code serializes current board state into a JSON, then requests the Lambda function through an AWS API Gateway with said JSON as body, the Lambda function then returns the best move as a response. Play @ gochessengine.com

Pedraam.org

August 2021

- Built personal website to show off side projects and learn the React framework.
- Heavily focused on animations and flashy transitions, utilizing the React Spring library.