PRATEEK RAO

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Skills

PROGRAMMING LANGUAGES

Python

JavaScript

TypeScript

Java

C-

SOFTWARE FRAMEWORKS AND TOOLS

Node.js

React

MongoDB

Redux

Mongoose

SQL

Flask

Jinja2 Firebase

Express.is

PostgreSQL

GraphOL

TypeORM

Apollo

HTML

CSS

SASS

DEVOPS TECHNOLOGIES

Heroku AWS EC2

GCP

NGINX AWS Glue

AWS S3

AWS Lambda

AWS CFN

AWS EKS

Bazel

Education

University of California, Irvine

Bachelors of Science in Computer Science

Focus: Information and AI

Dean's List: Fall 2016, Spring 2018, Spring 2020

Relevant Coursework: Design and Analysis of Algorithms, Introduction to Artificial Intelligence, Information Retrieval, Next-Generation Search Systems, Introduction to Operating Systems, Project in Operating Systems, Introduction to Database Management, Project in Database Management, Introduction to Cryptography, Digital Logic Design

Professional Experience

Switchboard Software

Senior Software Engineer

New York, NY Dec. 2021 to Current

Sept. 2016 to June 2020

Technical Stack: React.js, GraphQL, Flask, PostgreSQL, AWS, Kubernetes

- Architected key end-to-end solutions for users to manage and visualize their data pipelines.
- · Migrated end-to-end integration test suite from Nightwatch to Cypress, and implemented it in Switchboard's CI/CD pipeline on Kubernetes.
- Designed and implemented customer-centric UI features that addressed key user stories of Switchboard's business app.
- · Implemented generalized form management logic using React-Hook-Form and Material UI, that handle 110+ forms on Switchboard's business app.
- · Developed Switchboard's design system using Material UI, and lead migration efforts to new UI based on the new design system.

Software Engineer

New York, NY Dec. 2020 to Dec. 2021

- Developed 7+ connectors to third party APIs to fetch data on customizable schedules.
- Integrated Bazel into the React build process, which reduced CI/CD time by 28%.
- Developed a pinger application that monitors the uptime of Switchboard's application, and deployed it onto AWS using Kubernetes and Helm Charts.
- · Implemented type-checking across React codebase using TypeScript.
- Improved authoring experience on Switchboard app by introducing editor features such as syntax highlighting, autocompletion, and code macros.

Helping Hands Community

Volunteer Software Engineer

Los Angeles, CA Aug. 2020 to Nov. 2020

Technical Stack: React.is, Node.is, Firebase, Google CloudEngine

- · Contributed to the enterprise console for Helping Hands, a community driven resource matching platform during COVID-19.
- · Implemented consumer-friendly modals on enterprise website and improved accuracy of customer requests by over 40%.
- Developed SQL-based data models for Postgres migration from Firebase to reduce server costs by ~30%.

Zero

Software Engineer - Volunteer

Irvine, CA May 2020 to July 2020

Technical Stack: React.js, Apollo, GraphQL, TypeScript, Node.js, TypeORM, Postgres, Docker, Redis, CircleCl, Jest, Netlify, Google CloudEngine

- Contributed to Zero, a COVID-19 business safety app currently in beta in the state of New York (featured in TechCrunch).
 - Fixed race conditions and bugs on server-side GraphQL resolvers.
- Rewrote business logic code for input form handling to reduce client-side latency.

Kaiser PermanenteIrvine, CASoftware Engineer Co-opJan. 2020 to May 2020

Technical Stack: Docker Swarm, Python, ElasticSearch, Logstash, Kibana

- Created a pipeline to efficiently process 100,000+ medical images through PACS systems.
- Developed a scalable, end-to-end distributed service platform using Docker Swarm
- Optimized deserialized file transfer between distributed services by 50%.
- Designed a utilities library to transform medical images to trainable data formats.

UCI - Informatics Department

Full-Stack Developer Co-op

Irvine, CA Sept. 2019 to Dec. 2019

Technical Stack: React.js, Redux, Node.js, Mongoose, MongoDB, Heroku

Developed a user facing web application to cater to UCI students searching for housing.

- Implemented an API using Node.js and Express to handle user authentication and post data.
- Created Mongoose models to store user, post and comments data in MongoDB.

Projects

MyGymLog

June 2020 to Sept. 2020

Technical Stack: React.js, D3.js, Apollo, GraphQL, Node.js, TypeScript, TypeORM, Postgres, Docker, Redis, Jest, AWS, Netlify, CircleCl

- Created an application where users can log and analyze their weightlifting metrics.
- Developed a GraphQL API using Apollo, Node.js and TypeScript.
- Implemented graphs for user-created metrics using D3.js and React

CheckifCovid
Technical Stack: AWS Lambda, AWS Glue, Python

- Contributed to an OSS project that predicts COVID-19 clusters using form data.
- Developed ETL jobs in AWS Glue to transform 10000+ records from DynamoDB to S3.

Integrated AWS Lambda functions to pull form data from 3rd party vendors.

ICS Search Engine

Jan. 2018 to Mar. 2018

Mar. 2020 to May 2020

Technical Stack: Python, Flask, Jinja2, MongoDB

- Implemented a search engine based on ranked retrieval for a corpus of ~38,000 documents.
- Developed an inverted index-based ranked retrieval method for the search engine.
 Developed a front-end landing page for the search engine using Flask, Jinja2, HTML and CSS

Volunteering

Hack at UCI · Organizer

Jan. 2017 to Dec. 2019

Irvine, CA

• Planned, organized and promoted HackUCI, a yearly hackathon at UC Irvine

• Led workshops on topics such as web crawlers, database management, Flask and Reddit API.