PRATEEK RAO

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EDUCATION

University of California - Irvine · Sept. 2016 to June 2020
Bachelors of Science in Computer Science
Focus: Information and AI
Dean's List: Fall 2016, Spring 2018, Spring 2020

EMPLOYMENT

Kaiser Permanente
Software Engineer Intern · Jan. 2020 to May 2020 · Irvine, CA
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 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 · Sept. 2019 to Dec. 2019 · Irvine, CA
Technical Stack: *React.js, Redux, Node.js, Mongoose, MongoDB, Heroku*
- Developed a web application to cater to UCI students searching for housing.
- Implemented an API using Node.js to handle user authentication and post data.
- Created a NoSQL database using MongoDB and Mongoose.
- Adopted agile methodology for the developing prototypes in two-week sprints.

SKILLS

PROGRAMMING LANGUAGES: Python, JavaScript, Java, C++, C, TypeScript
SOFTWARE FRAMEWORKS AND TOOLS: Node.js, React.js, MongoDB, Redux, Mongoose, SQL, Flask, Jinja2, Firebase, Express.js, Docker, PostgreSQL, GraphQL, TypeORM, Apollo
DEPLOYMENT TECHNOLOGIES: Heroku, AWS EC2, GCP, NGINX, AWS Glue, AWS S3, AWS Lambda

PROJECTS

MyGymLog · June 2020 to Present
Technical Stack: *React.js, D3.js, Apollo, GraphQL, Node.js, TypeScript, TypeORM, Postgres, Docker, Redis, Jest, AWS, Netlify, CircleCI*
- Created an application where users can log and analyze their weightlifting metrics.
- Developed a GraphQL API using Apollo with resolvers for user authentication and weight logging.
- Implemented graphs for user-created metrics using D3.js, React hooks and the Context API.
- Implemented testing using Jest and set up CI/CD using CircleCI to host the website on Netlify.

Zero · June 2020 to Present
Technical Stack: *React.js, Apollo, GraphQL, TypeScript, Node.js, TypeORM, Postgres, Docker, Redis, CircleCI, 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).
- Implemented QoL improvements to the website, with page redirection and lazy loading.
- Fixed race conditions and bugs on server-side GraphQL resolvers.
- Rewrote business logic code for input form handling to reduce client-side latency.

CheckifCovid · Mar. 2020 to May 2020
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.

VOLUNTEERING

Hack at UCI · Organizer
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.