PRATEEK RAO

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Skills

PROGRAMMING LANGUAGES

Python
JavaScript
Java
C++
C

SOFTWARE FRAMEWORKS AND TOOLS

Node.js
React.js
MongoDB
Redux
Mongoose
SQL
Flask
Jinja2
NVIDIA CLARA
Firebase
Express.js
Docker
PostgreSQL

DEPLOYMENT TECHNOLOGIES

Heroku
AWS EC2
GCP
NGINX
AWS Glue
Docker
Docker Swarm
Docker Stack

Education

University of California, Irvine
Sept. 2016 to Current

Bachelors of Science: Computer Science
Expected Graduation: 2020

Employment

Kaiser Permanente
Irvine, CA

Software Engineer Intern
Jan. 2020 to May 2020

- 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
Irvine, CA

Full-Stack Developer Co-op
Sept. 2019 to Dec. 2019

- 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.

CheckifCovid
Mar. 2020 to Current

- Contributed to an OSS project that predicts COVID-19 clusters using form data.
- Developed ETL jobs in AWS Glue to transform 10000+ records from S3 to CSV.
- Integrated AWS Lambda functions to pull form data from 3rd party vendors.

PicNote (SDHacks 2018)

- Created a web application to share pictures of notes to classmates.
- Developed a backend REST API in Flask to handle database queries.
- Optimized image loading using AWS S3 buckets in the Flask application.

Hack-Trello
June 2018

- Developed an application that reminds members of Hack at UCI of pending tasks.
- Used the Trello API to import task-related data from Trello Boards.
- Integrated Twilio, SendGrid and Facebook APIs to send task messages.
- Developed a landing page for the sender 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.