

AKASH RUPAPARA

"Ever Positive, Never Negative"

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Education

Master of Science in Software Engineering <i>San Jose State University</i> Related Coursework: Enterprise Distributed Systems, Data Mining, Enterprise Software Platforms	January 2021 – December 2022* <i>San Jose, CA</i>
Bachelor of Technology in Information and Communication Technology <i>School of Engineering and Applied Science, Ahmedabad University</i> Related Coursework: Advanced Data Structures and Algorithms, Software Engineering, Big Data Analytics	August 2016 – May 2020 <i>Ahmedabad, Gujarat</i>





Technical Skills

Programming Languages	: C/C++, Java, Javascript, Python, Go, Hack, PHP
Frameworks	: NodeJS, GraphQL, Django, Apache Kafka, ExpressJS, Spring, Redux
Databases	: MySQL, MongoDB
Cloud	: AWS- Cloud (EC2, S3, ECS, RDS), Docker
Libraries	: ReactJS, Pandas, NumPy, Matplotlib, Tensorflow, Keras

Experience

Software Engineering Intern <i>Meta (Formerly known as Facebook) Platforms, Inc</i> <ul style="list-style-type: none">Facilitated full stack project by adding new view player profile feature and two other updates in screens/ functionalities with the "Fantasy Games" team in Facebook App (impact to 5 Million users).Proposed and executed plan to add pagination with new UI in screens having huge data to improve app performance by 30%.20% increase is observed in picks made/ picks edited from game home with new feature introduced likely to increase as experiment runs for long.Refactored the code to make certain functions and database queries generic.	May 2022 – Present <i>Seattle, WA, USA</i>
Software Engineering Intern <i>SS8 Networks Inc</i> <ul style="list-style-type: none">Design, implement and maintain large distributed React-based applications (Java Spring boot in Backend) and micro-services deployed at a customer site. Envisioning the big picture and driving the team to deliver high-quality products on time.Advised UX team to develop easy to use UI. Directed work of optimizing 2 features to make UX interactive.Coordinated with customer to propose and created new screen designs for user screens requested by 75% of users.	January 2022 – May 2022 <i>Milpitas, CA, USA</i>
Software Engineer <i>Shriji Technoaspire Pvt Ltd</i> <ul style="list-style-type: none">Designed and developed E-commerce and company's profile website for the company with ReactJS, NodeJS and MySQL.Co-ordinated on Web portal for Smart electric meters to analyse electricity usage and home automation. Saved electricity consumption upto 20% by monitoring with app.Incorporated Redux with memoized selectors to achieve optimum performance (upto 90%) for rendering components.	June 2020 – December 2020 <i>Gandhinagar, Gujarat, India</i>
Machine Learning Intern <i>VNurture Technologies</i> <ul style="list-style-type: none">Image processing with Django and flask using Machine learning algorithms to develop fashion recommendation system.Model recommended clothes for input image of person with approximate accuracy of 92%.	June 2019 – November 2019 <i>Ahmedabad, Gujarat, India</i>

Academic Projects

Indeed-Clone <i>MERN Stack, Redux, Redis, Kafka, Docker, AWS, GraphQL</i>   <ul style="list-style-type: none">Coordinated with team to develop distributed system using micro-services for job board facilitating employers, job-seeker and Admin roles. Deployed Application on EC2 instance and storing images in S3 bucket.Implemented functionalities for job search, job application, chat, company reviews and many more. Reduced the Latency by 10% using Data-pooling option available in MongoDB to enable reuse of multi-threaded connections.Integrated Redis caching to improve throughput and reduce latency. Integrated message broker (kafka) to achieve scalability and reliability of API requests (10k user support). Tested application using JMeter and Mocha.
Vaccine Management System <i>ReactJS, Java, Spring Boot, AWS, MySQL</i>  <ul style="list-style-type: none">Facilitated team of 4 people to develop Vaccine Management System where user can login to book slots for vaccination and manage appointments for clinics added by the admin.This Influenced to go 100% paperless and users get vaccinated on time by getting reminders and schedule appointment remotely. Integrated OAuth with Google with spring security for login and Sign-up with email verification. Tested app for 20k user support.
COVID CT Scan Diagnosis <i>PCA, Numpy, Pandas, Tensorflow, ML Algorithm</i>  <ul style="list-style-type: none">Analyzed Patient's CT-Scan images of lungs to predict diagnosis of COVID-19 applying Data Mining and Machine Learning Algorithms. Achieved 10% more accuracy than baseline methods described in reference research paper.Enhanced dataset by combining data from three to four sources and performed augmentation as there was less data available due to privacy concerns. Trained model on approx 25k Images.

Publications

Research Paper entitled “**Advanced Assistance Services Using Hybrid Ambulance System**” presented at Winter Simulation Conference at Maryland, USA and Published in **IEEE**([LINK](#)). Developed an algorithm to minimize the average response time of ambulance to reach to the hospital from accident spot, further reduced the casualty rate. Influenced an overall time reduction of approximately 3 minutes with a **97%** survival rate.