AKASH RUPAPARA

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Education

Master of Science in Software Engineering — San Jose, CA
San Jose State University — *Jan. 2021 – Present*
Related Coursework: Enterprise Distributed Systems, Data Mining, Enterprise Software Platforms

Bachelor of Technology in Information and Communication Technology — Ahmedabad, Gujarat
School of Engineering and Applied Science, Ahmedabad University — *Aug. 2016 – May 2020*
Related Coursework: Advanced Data Structures and Algorithms, Software Engineering, Big Data Analytics

Technical Skills

Programming Languages: C/C++, Java, Python, JavaScript
Web Technologies: ReactJS, NodeJS, ExpressJS, Redux, Apache Kafka, GraphQL, Django
Databases: MongoDB, MySQL
Cloud: AWS Cloud (EC2, S3. ECS, RDS), Docker
Libraries: Pandas, NumPy, Matplotlib, Tensorflow

Experience

Software Engineering Intern — June 2020 – Dec. 2020
Shriji Technoaspire Pvt Ltd — *Gandhinagar, Gujarat*
- Designed and developed E-commerce and content management websites for the company.
- Incorporated capabilities of adding products to cart, similar products suggestions, most purchased products and completing order online by executing payment through payment gateway.
- Managed and updated timely contents on company's profile website with ReactJS, NodeJS and MySQL.

Machine Learning Intern — June 2019 – Nov. 2019
VNurture Technologies — *Ahmedabad, Gujarat*
- Worked on Various Machine Learning algorithms to train a Fashion Recommender Model using Tensorflow.
- Developed UI with Django and flask to get input image of a person and clothes were recommended for similar fashion as input with model trained with accuracy of approximately **90%**.

Projects

COVID CT Scan Diagnosis | *PCA, Numpy, Pandas, Tensorflow, ML Algorithm* — May 2021 – Aug. 2021
- Patient's CT Scan images of lungs are used to predict diagnosis of COVID-19 applying Data Mining and Machine Learning Algorithms. **10%** more accuracy is achieved than baseline methods used in reference research paper.
- Due to privacy issues very less data was available therefore dataset was enhanced by combining data from different sources and data augmentation.

Splitwise-Clone | *ReactJS, NodeJS, ExpressJS, Redux, MongoDB, AWS* — Feb. 2021 – May 2021
- Co-ordinated with team members in developing front-end using ReactJS and implemented state management using Redux, resulting in optimized performance by **25%**.
- Deployed Application on EC2 instance and storing images in S3 bucket.
- Reduced the Latency by **20%** using Data-pooling option available in MongoDB to enable reuse of multi-threaded connections.

Smart Warehouse Management System | *Javascript, C, Python, MySQL, AWS* — Dec 2019 – May 2020
- Designed and Integrated Arduino, Raspberry Pi and RFID Technology to build IOT Based Smart Warehouse Management System.
- Using Smart Robot to perform storage and smart parcel collection process can improve performance of warehouse operations by **40%**. Analysing and visualising performance data using Google analytics dashboard.
- Improved scalability and achieved better availability by deploying application on EC2.

Enterprise Resource Management | *Django, Python, MySQL, HTML/CSS* — Jan 2019 – May 2019
- Created Enterprise Resource Management application following complete software development life cycle.
- Application allows maintaining records of Employee's expenditures, travel allowance, work progress, tutorials and all other work status of particular project. It also provide multiple options for user to export data into suitable format like .xls, .pdf and chart.

Publications

Research Paper entitled **"Advanced Assistance Services Using Hybrid Ambulance System"** was presented at reputed international, Winter Simulation Conference **(h-index: 57)** at Maryland, USA and Published in **IEEE**.(ieeexplore.ieee.org/AASHA)An Algorithm was designed to minimize the average response time of ambulance to reach to the hospital from accident spot, further reducing the casualty rate. It provided an overall time reduction of approximately 3 minutes with a **97%** survival rate.