

Deepen Patel

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EDUCATION

San Jose State University **Master of Science, Software Engineering, 3.7/4** *January 2020 - December 2021*
Courses: Large scale distributed systems, Data mining, Software Security, Enterprise Application Development, Business Intelligence

Gujarat Technological University **Bachelor of Engineering, Computer Engineering, 3.7/4** *August 2015 - May 2019*
Courses: Data structures and algorithms, Database management Systems, Operating Systems, Web Applications development, Computer Networks, Machine Learning, Big data Analytics

SKILLS

Programming Languages: Java, Python, JavaScript

Development and Databases: Node.js, Spring framework, Django, GraphQL, Apache Kafka, REST APIs, React.js, Redux, HTML, CSS, SQL (MySQL, PostgreSQL), NoSQL (MongoDB, Redis)

Cloud and DevOps: AWS, Google Cloud, Docker, Kubernetes, Terraform, Source control (Git), Automated Unit Testing, Application load testing (JMeter), Selenium

Data Science/Analytics: NumPy, sklearn, pandas, Matplotlib

Other: Jira, Object-oriented programming, Software Design patterns, Agile/scrum development methodology, Problem solving, Software development lifecycle, Test driven development

WORK EXPERIENCE

ScoreMore LLC. *Chicago, IL*
Full stack Software Engineering Intern *February 2021 - Present*

- Working on SaaS application (Serverless architecture using AWS Lambda) to create a user-friendly software accessible by anyone.
- Collaborating with the team to discuss new user-focused features to implement and participating in agile development process.
- Creating and testing UI elements for the admin side with React, Redux, GraphQL, and other open-source JavaScript libraries.

Pratham Notebook *Ahmedabad, India*
Software Developer Intern *June 2019 - November 2019*

- Improved sales by 15% by designing database schema (MySQL) to keep track of sales that allowed for more efficient analysis.
- Implemented backend REST APIs in Node.js to gain high performance and handle concurrent connections.
- Developed intuitive and responsive UI interfaces with reusable components and scalable framework (React.js).
- Developed management systems and brand website in a team-based environment for a Consumer goods startup.

PROJECTS

Amazon Prototype (MERN Stack, Redux, Apache Kafka, MySQL, Redis, Passport.js, JWT)

- Led the development of a secure eCommerce web app similar to amazon.com with 10000 products in a team of five members.
- Designed the software system architecture consisting of a client layer, server layer, message queuing system, and database layer.
- Developed backend REST APIs in Node.js and Express.js to process client requests and cache data using Redis.
- Improved system efficiency by 15-20% by setting up Apache Kafka as a messaging queue to decouple APIs and business logic.
- Implemented token-based authentication and authorization, wrote test cases and tested performance using JMeter.
- Deployed on AWS EC2 instance with auto-scaling, security groups, AWS S3 and load balancer for high availability.

Automated web Deployment (Docker, Kubernetes, Terraform, Google Cloud, Travis CI, PostgreSQL, Git)

- Developed a production-style development workflow by adapting Microservice architecture and utilizing different DevOps tools.
- Automated the provisioning of infrastructure (Kubernetes cluster) on GCP using an Infrastructure as a code tool (Terraform).
- Deployed a web application to Google Cloud using Google Kubernetes Engine and Docker for containerization.
- Implemented CI/CD pipeline using Travis CI to build, test and deploy changes from GitHub to the production environment.

Direct-Exchange – A currency remittance system (Java, Spring, React.js, MySQL, Aspect/Object-oriented programming, Docker, Jenkins)

- Developed a P2P currency remittance system, to remove the need of having to go through currency conversion and paying more.
- Worked on object-oriented design to capture the structure and behavior of the system into small modules.
- Implemented REST services with Spring boot, AOP, JPA, Amazon RDS and designed user interfaces using React.js and ant design.
- Created an automated CI/CD pipeline to run tests and release the updates to AWS EC2 cloud as dockerized containers.

House Party (Python, Django, JavaScript, React.js, SQLite, Object oriented programming, Spotify APIs)

- Developed a web app that hosts various rooms which lets anyone to join and play different songs from their Spotify account.
- Set up the backend server using Django REST framework to handle users' requests and interact with database and Spotify APIs.
- Created reusable and interactive UI components with React.js and Material-UI to join/create a room and play/pause/skip the songs.

Email categorization and Spam/Ham filtering (NumPy, pandas, Matplotlib/Seaborn, sklearn, Machine learning algorithms, nltk)

- Performed Email categorization and Spam/Ham filtering on Enron email dataset (0.5 Million emails) using Machine learning techniques.
- Analyzed accuracy of 5 different algorithms on spam/ham filtering using Confusion matrix and ROC curve.
- Evaluated the performance of Logistic regression model on email categorization by cleaning, preprocessing and feature extraction using Bag of words model and TF-IDF vectorizer, training, and testing.