DEEPEN PATEL

A student with a curious and collaborative personality, striving to solve complex technical problems by developing Innovative solutions and creating real-world, high-quality products.

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EDUCATION
- **San Jose State University**   Master's degree, Software Engineering   San Jose, CA (2020-2021)
  Key courses: Enterprise Distributed Systems, Software Systems Engineering, Enterprise Software Overview
- **Gujarat Technological University**   Bachelor's degree, Computer Engineering   Ahmedabad, India (2015-2019)
  Key courses: Data Structures and Algorithms, Database Management Systems, Operating Systems, Software Engineering, Web Technologies, Computer Networks

SKILLS
Languages: Python, Java, JavaScript, C   **Databases:** SQL, MongoDB, Redis
Web Technologies: Node.js, React.js, Express.js, HTML5, CSS, Bootstrap, Redux.js, Passport.js, JWT, GraphQL, Apache Kafka, RESTful Services, Django
Cloud Technologies: AWS (EC2, RDS, S3), Docker   **CI/CD:** Git, JUnit, JMeter, Mocha, Jenkins
Other: Linux, Design Pattens and Principles, Agile Methodologies
Certifications: Certificate in 'C', by CDAC – Centre for Development of Advanced Computing, Govt. of India; Microsoft Technology Associate – Software Development and Database Fundamentals; Jenkins Essential Training - LinkedIn Learning

EXPERIENCE
Software Developer Intern, Pratham Notebook, Ahmedabad, India   **(June 2019 – Nov 2019)**
- Assisted in the development of management systems and branded website for a Consumer Goods Startup.
- Designed database to keep track of sales for analysis and improvements, resulting in **15% sales growth**.
- Implemented backend microservices in Node.js for high performance and concurrent request handling.
- Developed front end views and handled events using React and jQuery.

PROJECTS
Amazon Prototype (MERN Stack, Redux, Apache Kafka, MySQL, Redis, Passport.js, JWT token) (April 2020 - May 2020)
- Built a scalable and secure web-application similar to amazon.com with 10000 products in a team of five.
- Designed front end elements using React and implemented back end REST APIs using Node.js.
- Implemented authentication and security using Passport - Jwt token and tested APIs using JMeter and Mocha.
- Employed Apache Kafka cluster as a messaging system to decouple APIs and business logic which increased the efficiency of the system by 20%.
- Deployed on AWS EC2 instance with Auto-scaling and Load Balancer for high availability.

Handshake Prototype - simulation of joinhandshake.com (MERN Stack, Database pooling, Socket.io)   (April 2020)
- Developed a MERN Stack application, where students can apply to job postings, register for eligible events posted by companies, look at other students' profiles and communicate with them via real-time messages.
- Used connection pooling which helped increase the response rate of server and tested using Postman.
- Hosted on Amazon AWS EC2 and developed following the SCRUM methodology for software development.

Traffic Governance System (Python, YOLOv3, OpenCV, Flask, HTML, CSS, Docker)   (March 2020)
- Built an intelligent system that deals with the flow of traffic at crossroads.
- With the help of cameras, it obtains the number of vehicles in each lane using YOLOv3 and increase the timer for that and balance other lanes accordingly.

Credit Card Detection (Java, JUnit)   (April 2020)
- Built an application for verification and classification of Credit cards from different file formats in java using Gang of Four - Design Patterns (Strategy and Chain of responsibility).