

VARUN SHAH

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SUMMARY

- 1+ year of experience as a Software Engineer in designing, developing, and testing Applications & Web Services.
- Proficiency in architecting and managing AWS cloud infrastructure.
- Applied knowledge about scaling solutions, consistently seeking innovative learning opportunities in technology.

EDUCATION

Master of Science in Computer Science | *California State University, Long Beach, CA* May 2023
Bachelor of Technology in Information Technology | *Dharmsinh Desai University, India* June 2020

PROFESSIONAL EXPERIENCE

Graduate Research Assistant | *California State University, Long Beach, CA* Aug 2021 – May 2023

- Developed a multi-genre article classification model accessible via a RESTful API using python with AWS S3 as the data management service for 1000+ articles, achieving 90% accuracy.
- Identified and engineered high-impact features from raw article data, boosting model performance by 15%.
- Improved efficiency of pipeline deployments utilizing dynamic multi-processing, leading to a 30% reduction in process time.

Software Development Engineer | *Cloudfiffis Technologies, India* May 2020 – May 2021

- Optimized a name reconciliation system for trading accounts using object-oriented programming and data structures expertise, resulting in improved performance and efficiency using Java.
- Constructed and managed scalable java back-end services, integrating robust SOA and REST APIs, enhancing system reliability.
- Re-engineered a MySQL database for robust testing and real-time error tracking, significantly reducing redundancy and increasing data pipeline efficiency by 25%.

Software Engineer Intern | *Knowarth Technologies, India* Jan 2020 – May 2020

- Developed a React web application leveraging advanced JavaScript and HTML to enhance user interactions.
- Utilized AWS services such as EC2, S3, and DyanamoDB to build a scalable and robust infrastructure.
- Administered HTTP web protocol using JavaScript in a cross functional approach, enhancing the stability and responsiveness of web applications.
- Implemented Jenkins for continuous integration and continuous delivery (CI/CD), improving code quality by 40% and increasing deployment frequency by 27%.

SKILLS

- **Languages:** Python, Java, JavaScript, C++, HTML, CSS
- **Frameworks:** Node.js, Angular, React.js, Spring Boot, Spring MVC, Flask
- **Technologies:** Docker, Kubernetes, Git, GitHub, REST API, JSON, AWS, Terraform, Kafka
- **Databases:** MySQL, Firebase, PostgreSQL, DynamoDB, NoSQL

ACADEMIC PROJECTS

Show Tracker | *Java, Spring*

- Design APIs to manage team registration of Hackathon system using Java platform with Spring Boot framework.
- Achieved data consistency using JPA and increased modularity by utilizing Aspect oriented programming for logging.

Handy Cricket | *Python, OpenCV*

- Created Hand gesture detection using OpenCV and Keras library to give classic game of hand cricket a virtual twist.
- Applied SqueezeNet and Keras to train the image classification model after augmenting the custom dataset.

Next Word Prediction | *Python, Natural Language Processing*

- Designed an RNN Model that predicts the next possible words based on the entered word or a sentence by the user.
- Evaluated various optimizer to calculate the percentage of the units be dropped for regularization.