

DEEPIKA TEKALE (Software Developer)

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OBJECTIVE

Motivated Full-Stack Developer with **5 years** of experience in building scalable applications using **Java, JavaScript, ReactJS, Spring Boot, and Microservices**, seeking a **full-time opportunity** to contribute to innovative, high-impact software solutions and open to learn New Technologies and thrive.

TECHNICAL SKILLS

Programming Languages: **Java(4 years), JavaScript(3 years), Python(2 years), C (3 years), Dart(1 year).**

Databases: **MySQL, MongoDB, Cassandra .**

Tools: **Spring Boot, Spring Data JPA, Spring AOP, Spring Data Access, Spring Web Test, Spring MVC, Eclipse, Arduino IDE, Postman, Swagger, Git, JIRA, Visual Studio Code, Flutter.**

Platforms & Frameworks: **Docker, Azure, Linux, React JS, Bootstrap, OpenCV, Kafka , Kubernetes.**

EDUCATION

Santa Clara University, Santa Clara, CA
Masters in computer science and engineering

March-2025
GPA: 3.807

EXPERIENCE

Software Application Developer

Remote

Frugal Innovation Hub

March 2025 – Present

- Enhanced Working on a Gaming Project Num Quest which is a bilingual educational application designed to teach Number Theory Concepts to Children with English to Spanish Translation.
- Designed and developed an intuitive bilingual from UI/UX up to 10% for Num Quest using **Dart in Flutter Framework**, enhancing accessibility for English and Spanish-speaking children.
- Engineered interactive quizzes enhanced up to 30% and practical exercises with Play, Voice-overs, Flashcards with real-time feedback to reinforce number theory concepts effectively.
- Yet more to go present working on running app in IOS simulators and deploying the app and implementing new features as per requirement.

Frontend React Intern

Remote

GBCS Company

June 2024 –February 2025

- Enhanced the user interface and resolved critical bugs by implementing designs from the company's Figma, resulting in a **20% increase in user engagement** and improved functionality across the platform.
- Created dynamic PDF templates, **improving document generation efficiency by 25%**, and updated project dependencies to enhance system stability, **reducing build errors by 10%**.
- Conducted extensive **testing and debugging** in React environments, resolving major issues and contributing to improved application **performance and user experience**.
- Collaborated on regression tests and conducted in-depth research on carbon emissions for land, air, and marine vehicles, supporting Fleet Management Projects with accurate life cycle emission calculations.

Software Engineer

Bengaluru, INDIA

LTI Mindtree

Sep 2019 - Nov 2022

- Worked as a **Full Stack Developer** for a couple of projects with **Metro AG**.
- Technologies used **Java, Spring Boot, React-Redux, MongoDB, Cassandra DB, Swagger and Postman, Jira, Maven, GitHub, Kafka, .**

- I implemented **RESTful APIs** using the Spring Boot framework in **Java** and written Junit testcases with more than 90% code coverage.
- I crafted **reusable web components utilizing React JS**, used by Metro AG's **suppliers worldwide**.
- Successfully **resolved defects and bugs in QA, UAT, and production** environments, in accordance with **Agile methodology**, ensuring flexibility and responsiveness. I collaborated with geographically dispersed teams, including business analysts, to facilitate discussions and drive **user-story development**.
- Designed, configured, and deployed Amazon Web Services (AWS) for a multitude of applications utilizing the **AWS stack** (Including EC2, S3).
- Experienced in handling messaging services with **Apache Kafka** and utilizing modern NoSQL platforms like **MongoDB** and DynamoDB.
- Experienced in test automation using **Selenium, JUnit, Mockito**, and **Log4j** for test case development and application functionality assessment.
- Received the **A-team member award** and **Gracious Award** as client appreciation. I provided training to new team members to help them quickly integrate into the project.

PROJECTS

Airline Reservation Application (Full Stack)

- Implemented a Flight Reservation application where multiple users can book flight, manage, and edit the reservations.
- The backend, developed in **Java using the Spring Boot framework for REST API functionality**, the **frontend, implemented in ReactJS** for the GUI client-server model. The application's data management was achieved through MySQL Workbench.

Face mesh generation (Distributed Systems)

- Developed a distributed solution for generating a facial mesh given an input video with a human face.
- We embarked on a journey to **trace facial points** and forge a mesmerizing **face mesh adorned with Delaunay Triangles** using **OpenCV**.
- The distributed system was simulated using **Python3 multithreading**, which used a fork-join model to distribute frames and collected the final frames to generate a video with mesh overlayed on top of human face.

Restaurant-Ordering-Delivery-Service (Backend-Microservices)

- As a capstone project at Mindtree, I worked on a backend application of Food Ordering Service similar to Door Dash.
- The backend is comprised of three services (restaurant-service, ordering-service, and delivery service) which are connected through **Microservices(Kafka)** and **Zuul proxy** is used to provide dynamic routing of incoming API requests to their respective service.

All the microservices are registered through **Eureka Server** configuring ports and service URLs.

Facial Recognition (Machine Learning)

- I have worked on ML Models that take normal images as main data, did **data augmentation(331 images)** like sharpening, adding contrast and so on, followed data **Pre-processing to 2308 images**.
- Next step feature extraction with two methods used that are using **HOG Feature extraction**(Histogram Oriented Gradient) another is **PCA-LDA** Feature extraction.
- Trained and evaluated **SVM, Random Forest, K-Nearest Neighbors, and Logistic Regression models** on both feature sets.
- Finally, ensembled all the model's accuracy for the best accuracy. For this project we scored A grade.

RELATED COURSEWORK

Design Analysis of Algorithms, Computer Architecture, Operating Systems, **Machine Learning**, **Artificial Intelligence**, Distributed Systems, Computer Networks, Object-oriented design analysis, Data Visualization, Solutions Associate Architecture (SAA).

CERTIFICATIONS

AWS: CLF-C02 (Cloud Certified).

Data Structures and Algorithms.

Coursera: Spring Boot Hands-On, Spring Hibernate, JavaScript, Node JS and React JS.