

# Shubham Prasad

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LinkedIn Leetcode



## Summary

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A **Full Stack Developer** with **5 years of experience** specializing in **Java, Spring Boot, Microservices, AWS** for backend services and deployments, alongside strong skills in **Angular** and **React** for frontend development. Proficient in building scalable applications and integrating RESTful APIs.

## Technical Skills

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**Frameworks & Libraries:** Microservices, Spring Boot, React, Redux, Angular, Node.js, Hibernate, AWS Cloud

**Programming Languages:** Java 8/11/17, Python 3, JavaScript, TypeScript, C++, C, HTML5, CSS3

**Database Knowledge:** MySQL, AWS Aurora, PostgreSQL, MongoDB, DynamoDB

**CS Knowledge:** Data Structures & Algorithms, RESTful/SOAP APIs, Object-Oriented Programming (OOP)

**Developer Tools:** IntelliJ Idea, Eclipse, Microsoft Visual Studio, Xcode, Git & GitHub, VS Code, Java JDBC, Bitbucket, Docker, Liquibase

**AWS Services:** API Gateway, Elastic Container Service, Elastic Kubernetes Service, EC2, AWS Lambda, Layers, Elastic bean stalk, S3, Amazon RDS, Dynamo DB, AWS Aurora, Step Functions, SQS and SNS, CloudWatch, CloudFront, Route 53, etc.

**Monitoring Tools:** Splunk, Cloud watch logs, Datadog, Dynatrace, Grafana

**Deployment Tools:** Jules, Jenkins, Spinnaker, PCF, Vault, AWS Secrets Manager, Terraform, ECS

## Work Experience

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### Deloitte USI

Sep 2024 – Present

Consultant/Lead

*Client: JPMorgan Chase & Co.– US Bank*

Hyderabad, TG

- Worked as a Java/AWS Lead and built the application from scratch till final delivery. Discussed with Clients from high level system design to coding low level API and database queries. Implemented and optimized the code, applied compression techniques, and auto scaled instances based on traffic to **improve response time by 25%** and maintained code quality through Sonar Lint, SonarQube.
  - Worked on **One Time Batch Load Job** of complete migration of mainframe DB2 database data to AWS Aurora Postgres Database through AWS S3, Lambda control triggers and AWS Glue.
  - Built Client's **Mainframe Modernization projects** from start, migrated the project from GAIA cloud to AWS based cost efficient infrastructure. Removed the costly batch processes of entire database re-checks of 2-3 million accounts weekly to event-based updates on Aurora database records through **Kafka and CDC** (Change Data Capture) for reconciliation processes of strategic paperless services.
  - Developed and secured RESTful endpoints in Spring Boot microservices, implementing best practices such as versioning, input validation, and error handling, while utilizing Spring Security for authentication and authorization to protect sensitive data.
  - Implemented **Liquibase for managing database schema changes** in Amazon Aurora, enhancing deployment efficiency, and enabling automated tracking and rollback of changes across environments.
  - Did **code reviews** frequently to maintain the code quality and performance. Also helped new joiners and freshers to understand the code and complete their respective tasks on time.
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- Written configuration files to build, deploy app through Jules. Completely wrote **terraform scripts** from scratch for dev, test, and prod environment for seamless deployment on ECS containers in different regions for disaster recovery and availability.

- Developed API Reconciliation applications to compare the values of Legacy Mainframe and the Modernized applications and generate Excel sheet reports for checking the results. Implemented AWS SQS, Lambda control triggers to run the application on uploading Input file on S3 bucket and AWS SNS for notifications on every run. Deployed on dev, test and production for live results verification.
- Developed React components using Hooks, context API and Redux, optimizing rendering efficiency and reducing re-renders by implementing React memo and useCallback, leading to a 30% improved app performance.
- **Improved user interaction time by 20%** by optimizing Largest Contentful Paint (LCP) through lazy loading and query optimization, improving content load speed and site performance.
- **Reduced API response time by 25%** through the optimization of database queries and code refactoring, enhancing customer experience.
- Introduced automated testing processes with Jest, increasing test coverage and reducing post-release defects.
- Worked and have deep knowledge of various **Testing frameworks** like Mockito, JUnit's, Jest, Jasmine and Contract, Component, Functional automation, Acceptance, End-to-end, PVT (production verification testing) using Cucumber, Gherkin, etc.
- Worked on **Blue-green, canary deployments** to migrate traffic from legacy application to modern application for testing and rollback without any issues.

### **Capgemini Technology Services India Limited**

Aug 2020-Aug 2024

Associate Consultant

*Client: GAP Clothing - USA Retail & Fashion Brand*

Hyderabad, TG

- Worked on Global purchase order microservices application systems regarding product booking related stories on the main order integrator adapter for **enriching the data** by calling different services, **scheduling** workers, and jobs. Also fixed the defects and worked on debugging related stories for making the code production ready.
- Worked on the inbound and outbound adapters to manage and map our data which is understandable by our different vendor management groups across the countries.
- Used both **RabbitMQ and Kafka** according to requirements for receiving massive information about Booking, receipt, costing, shipping events, handling error scenarios effectively by using Resilience4j functions like **Retry, Circuit breaker, Rate Limiter, DLQ**, etc.
- Also worked on **Mass ticket transmission applications** to move thousands of purchase order records from excel sheets to MongoDB document and collections along with proper transformation of data and sanity checking of records before persisting.
- Implemented advanced state management with Redux, utilizing middleware like Redux Thunk for asynchronous actions and improving data flow efficiency.
- Employed code splitting and lazy loading techniques to optimize bundle size and improve initial load times, **resulting in a 20% reduction** in load time for the main application.
- Utilized React.memo and useMemo to **prevent unnecessary re-renders**, enhancing rendering performance and ensuring a smooth user experience during high-traffic periods.
- Conducted unit and integration testing with Jest, ensuring robust application functionality and reducing the likelihood of bugs in production.

*Client: State Farm Insurance*

Pune, MH

- Gathering the requirements for the application developed using Microservices and Angular 16.
- Interactions with the clients and onshore regarding technical details and involved in design discussions.
- Worked on creating the Spring boot application and consuming REST API's.
- Worked on creating the Angular application and installing external libraries. Worked extensively with Angular CLI for creating components, services, pipes.
- Implemented Angular Router to enable navigation from one view to the next and implemented Auth Guard for different routes. Created reusable components and services to consume REST API's using HTTP and Rxjs.
- Created **Http Interceptors** that Intercepts the outgoing http requests and adds **Authentication tokens** to the Auth Header. Worked on Parent Child Component Interaction. Implemented lazy loading of modules to enhance application startup time and reduce initial bundle size, resulting in improved **user experience by 20%**.
- Enhanced application performance by integrating state management solutions such as NgRx, enabling efficient data flow and better **management of application state by 30%**.
- Worked on deploying the Application to test and production environment using PCF.
- Designed and developed the application using Agile Scrum methodology by breaking down the project to several sprints.

- Application is developed using AWS services like Lambda, API Gateway, Aurora Database, SNS, SQS, CloudWatch, S3, AWS ECS Containers, IAM & Salesforce LWC.
- It is used to extract all the data from the different versions of vehicle claims forms of different states of USA like key-value pairs, paragraphs, queries, table data, lines and raw text using **Amazon Textract**, **natural language processing**, **Data training and data modelling**.
- Then the modified and corrected data is then sent to the frontend UI to get reviewed by the user and the saved to the database. Different types of Python third party libraries are used to correct the form of data, compare it, model it with different other Rest API sources using comparison logics and then send it the frontend.

## Projects

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### *Stock Market Predictive Analysis using Python/Machine Learning using BSE/NSE historical stocks data.*

- Developed a predictive analysis model using historical stock data from BSE/NSE, enabling informed investment decisions.
- Employed various machine learning algorithms (like Linear Regression, Decision Trees) to forecast stock prices and trends.

### *Interactive Angular and Java based Spring Boot E-Commerce Website*

- Integrated RESTful APIs for seamless communication between the client and server, ensuring efficient data handling.
- Implemented user authentication and authorization using Spring Security, allowing for a secure shopping experience.
- Enhanced user experience with features such as product search, filtering, and a shopping cart system.

### *Split Share Application using React.js, Node.js, MongoDB, Redux.js, PWA*

- Identified expense-splitting challenges and developed a web app solution with a working prototype.
- Full Stack Progressive Web App where users can update expenses, view charts and generate PDF reports.
- Designed prototype on Figma and used Redux for State Management.
- Build role specific APIs for admin and normal user respectively and added JWT authentication for securing APIs.

## Achievements

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- Solved **700+ DSA problems** on different coding platforms like Leetcode, GeekforGeeks, HackerRank. and proficient in Arrays and Strings, Linked Lists, Stacks and Queues, **Trees**, **Graphs**, **DFS**, **BFS**, Hashing, Greedy Algorithm, **Dynamic Programming**, **Sorting Algorithms**, **binary search**, and Recursion/Backtracking.
- Good in high-level system designs, functional and non-functional requirements, capacity analysis and performance improvement.
- Artificial Intelligence/Machine Learning with Python Training Certificate from NIVT Skills.
- AWS Cloud Certifications (Practitioner & Developer Associate)
- Received Deloitte USI **Applause Award** of Rs 10000 for excellent performance throughout the year.

## Education

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**University of Engineering & Management, Kolkata**

B. Tech: Computer Science (CSE) (CGPA: 8.4)

June 2016 - June 2020

Kolkata, WB