Anagha Badhe

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Technical Skills

- **Programming Languages:** C, Java, JavaScript, Go, Python
- **Web Development:** HTML, CSS, Bootstrap, React, Redux, Node.js, Express.js, Sencha, ExtJS
- **Backend and Frameworks:** Spring, Spring Boot, Spring Security
- **Databases:** MongoDB, MySQL, H2, Postgres, Redis
- **Messaging Systems:** RabbitMQ
- **Cloud and DevOps:** AWS, Docker, Kubernetes, Anisible, Terraform, Git
- **Development Tools:** Junit, Postman, Microsoft Power Apps
- **Testing:** Unit Testing, Manual Testing, Automated Testing
- **Software Design:** Object-Oriented Programming (OOP), RestAPI Development
- **Operating Systems:** Linux
- **Data Structures and Algorithms:** Proficient in problem-solving and optimizing solutions

Education

B.E. Computer Science And Engineering   Nov 2022 - Present
Shri Sant Gajanan Maharaj College Of Engineering, Shegaon
SGPA: 9

Higher Secondary Education (HSC)   March 2020 - July 2022
Nutan Vidyalaya, Malkapur
Percentage: 90.83%

Secondary Education (CBSE)
Madhubhau Saoji Menorial English School, Malkapur
Percentage: 92.6%

Experience

Project Trainee, **Tata Communications, Pune**   Jan 2025 – Present
Project: Mobile Messaging Exchange

- Contributed to the **Mobile Messaging Exchange (MMX)** project — a high-performance Smart Messaging System enabling global SMS delivery for enterprise clients.
- Implemented UI components using **Sencha JS** and backend modules with **Node.js, Express.js, and MongoDB**, improving responsiveness and system efficiency by **30%.**
- Optimized database queries, message routing APIs, and load handling mechanisms for high-volume traffic environments.
- Deployed and maintained services on **Linux** environments with a focus on performance tuning and fault tolerance.

Project: RCS

- Contributed to the **Rich Communication Services (RCS)** project, leading migration from **Spring** to **Spring Boot 3.x** and upgrading from **JDK 8** to **JDK 21** to enhance scalability, maintainability, and performance.
- Developed and validated new **REST APIs**, implemented **MockServer** for load and integration testing, and wrote comprehensive **JUnit** test suites to ensure code reliability.
- Utilized **Docker** and **Kubernetes** for containerized deployment in **AWS** environments with integrations including **Redis**, **RabbitMQ**, **PostgreSQL**, and **Cassandra**.
- Enhanced system reliability through effective **caching**, **messaging queues**, and **microservice-level monitoring** on **Linux** servers.

Project Intern, **ABB India Ltd., Nashik**   Oct 2024 – Jan 2025
Project: Real time FAT AIS switchgear tracking system.

- Automated the Factory Acceptance Testing (FAT) process in the Air-Insulated Switchgear (AIS) zone at ABB Nashik, reducing manual tracking efforts by 90%.
- Enabled real-time tracking of over 150 switchgear units daily using unique ID-based scanning across 8+ testing lanes.
- Developed Power Apps dashboards to display exact unit location, testing status, and lane-wise time spent, increasing data visibility and accuracy by 100%.
- Improved order traceability and reduced time spent locating units in the testing zone by over 60%.

Projects

CI/CD-Style API Test Automation with Postman   **Javascript, Postman**
- Built a Postman Flows solution to automate API test execution, eliminating manual input.
- Enabled dynamic chaining of requests and automatic test data mocking.
- Reduced testing time by 70% with single-click execution and integrated debugging/delay control.

Vinay Machinery Stores (Ecommerce Website)   **ReactJS, NodeJS, ExpressJS, MongoDB**
- Developed a secure, full-stack e-commerce site with role-based access control (RBAC) and JWT-based authentication for managing users, admins, and orders.
- Integrated Razorpay for seamless payments and deployed the application on Render for a responsive and scalable user experience.
- Enabled secure sales workflows, real-time order tracking, and an intuitive interface for both customers and administrators.

Counting Trees and Detecting Area of Orchards from a High-Resolution Satellite Image   **Python, QGIS**
- Developed a model using YOLOv8 to count trees and detect orchard areas from high-resolution satellite images.
- Explored unsupervised learning (K-means clustering) to identify tree clusters and calculate orchard boundaries.

Certifications

MongoDB Node.js Developer Path - MongoDB
Red Hat System Administration I (RH124) Certification - Red Hat Academy
Databases and SQL for Data Science with Python Certification - Coursera
Java Programming - Udemy

Extracurricular Activities

National Level Hackathon Winner   **1st Prize**
- 1st Prize at National Level Tech Tesseract Hackathon at MKSSS's Cummins College of Engineering
- Built a healthcare platform (**Swastha Bharat**) with features like AI-driven personalized prescriptions, medication reminders, and geolocation to find nearby medical stores.
- Enabled users to browse government-approved medicines, check banned drugs, and schedule appointments with healthcare professionals.

Geospatial AI Hackathon   **ISRO**
- Solved the challenge of Counting Trees and Detecting the Area of Orchards from a High-Resolution Satellite Image at VNIT Nagpur organized by ISRO.

Mozilla Open Source Community
Vice Chair President   *Aug 2023 – July 2024*
Member   *Sept 2022 – Aug 2023*