

ROHIT RAMCHANDANI

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OVERVIEW

Experienced senior software engineer with 4+ years of expertise in full-stack web development and algorithm design. Skilled in Spring Boot, Hibernate, Nodejs, Docker, React, React Native and AWS. Adept at collaborating with cross-functional teams to deliver scalable, high-quality applications that meet business objectives. Demonstrated expertise in enhancing system efficiency, automating workflows, improving user productivity.

WORK EXPERIENCE

Sr. Software Developer

January 2023 – Present

ST Microelectronics

Noida, India

- Designed and developed a **full-stack IoT monitoring system** for real-time telemetry tracking (temperature, humidity, water leaks, door motion) using Bluetooth, LoRaWAN, and IOKey gateways.
- Built a **responsive React.js web portal** with Tailwind CSS, React Router, and Redux for data visualization, device management, and alert-driven automation; implemented performance optimizations (lazy loading, memoization).
- Developed and integrated **RESTful and GraphQL APIs** in Node.js/Express and Spring Boot for real-time sensor updates, authentication/authorization (JWT, OAuth2), and secure session management with **CSRF/XSRF token protection**.
- Designed and optimized the **database layer** using PostgreSQL and MongoDB with indexing, caching (Redis), and ORM frameworks (Sequelize/Mongoose) for high-performance queries and scalability.
- Deployed backend services on **AWS EC2** with reverse proxy/load balancing via **Nginx**; managed runtime processes using **PM2** and containerized deployments with Docker.
- Integrated **AWS SES/SNS** for notifications, leveraged **IAM** for secure access control, and used **S3** for storage of device logs and reports.
- Managed data flow across the ecosystem (Sensor → Gateway → Verizon ThingSpace → Backend → Web Portal), ensuring reliable event ingestion, storage, and fault-tolerant retries.
- Collaborated with cross-functional teams to refine alerting logic, improve dashboards, and scale the platform for higher concurrency.
- Followed best practices in Git, Agile, and CI/CD pipelines (GitHub Actions, Jenkins) with automated testing (Jest, Postman, Cypress) to ensure code quality and deployment efficiency.
- Documented and exposed APIs using Swagger/OpenAPI, and contributed to code reviews, sprint planning, and knowledge sharing.

Technical Consultant

June 2021 – October 2021

Prepladder (Unacademy)

Delhi, India

- Built responsive UI components using **React.js**, **Tailwind CSS**, **HTML5**, and **JavaScript** to deliver interactive learning modules. Collaborated with design and content teams to enhance UX across web and mobile platforms.
- Ensured **accessibility**, **SEO optimization**, and **cross-browser compatibility** using modern front-end best practices.

Software Developer

September 2020 – June 2021

Chegg

Delhi, India

- Built responsive web solutions using **React.js**, **HTML5**, **CSS3**, and **JavaScript** to explain Computer Science concepts.
- Used **Git** for version control and collaborated with content teams to ensure high-quality, engaging user experiences.

Software Developer

May 2018 – June 2019

IWork Technologies

Pune, India

- Built a data analytics dashboard using Shiny (R) and JavaScript, enabling real-time visualization of sensor data (acceleration, gyroscope) collected in JSON format from a Xamarin Android app monitoring driver behavior across 3,000+ users.
- Developed interactive, web-based visualizations and charts to deliver actionable insights on driving safety, leveraging R libraries and responsive UI design for optimal user experience.
- Designed and implemented a web application to analyze **Atlassian JIRA** issue tracking data, identifying workload imbalances and productivity trends across 2,000+ software developers and QA testers.
- Integrated APIs to fetch and display issue tracking data, transforming raw logs into intuitive charts and metrics using **HTML5**, **CSS3**, **JavaScript**, and **data visualization frameworks**.

TECHNICAL SKILLS

Languages: JavaScript, Typescript, Java, Python, SQL, HTML, CSS

Databases: Oracle DB, PostgreSQL, MongoDB, MySQL, Firebase.

Frameworks: React, React Native, jQuery, Spring Boot, NodeJS, Bootstrap, Tailwind.

Developer Tools: Git, Docker, Jenkins, JIRA, Bugzilla.

EDUCATION

Delhi Technological University

Delhi, India | 2021-23

Masters of Technology in Data Science (DSC)

CGPA: **9.33**

Coursework: Probability and Statistics, Data Warehousing & Data Mining, Data Management and Ethics, Data Preparation and Analysis, Machine Learning, Deep Learning, Swarm and Evolutionary Computing.

UPES

Dehradun, India | 2015-19

Bachelor of Technology, Computer Science and Engineering (CSE)

CGPA: **7.35**

Coursework: Database Management Systems, Operating Systems, Data Communication and Computer Networks, Design and Analysis of Algorithms, Cryptography and Network Security.

ACADEMIC PROJECTS

Pothole Recognition System

Developed a system to detect potholes and provide real-time alerts to vehicles, improving road safety and driving experience. Utilized image processing techniques such as binarization, edge detection, and blob recognition with OpenCV for accurate pothole identification. Achieved 95% accuracy on aggregated test datasets, demonstrating high reliability in diverse road conditions.