

Swaroop Reddy

Full Stack Developer

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Professional Summary

- Over 7 years of hands-on experience as a Full Stack Developer, proficient in front-end and back-end development using Java, Spring Boot, React, Redux, Next.js, TypeScript.
- Expertise in designing and implementing scalable, secure, and high-performance web applications, ensuring optimal user experiences and code quality.
- Strong experience with AWS services including EC2, S3, SQS, SNS, CloudWatch, and IoT for cloud infrastructure, monitoring, and deployment.
- Skilled in database management and optimization using MySQL, MongoDB, Redis, and PostgreSQL, proficient in schema design, complex queries, and database migrations (Flyway).
- Proficient in real-time data streaming using Kafka and WebSocket for features like real-time order tracking and live chat.
- Hands-on experience in containerization and orchestration using Docker and Kubernetes (K8s), ensuring seamless deployment, scalability, and system stability.
- Implemented secure authentication and authorization systems using Firebase Authentication, JWT (JSON Web Tokens), and OAuth2.
- Experience in writing and maintaining clean, efficient, and maintainable code, ensuring consistency through established coding standards and best practices.
- Adept in API development and documentation using Swagger (OpenAPI) for seamless frontend-backend integration.
- Comprehensive knowledge of caching strategies using Redis to improve application performance and reduce latency.
- Deep expertise in CI/CD pipelines, version control (Git), and testing strategies (unit, integration, and end-to-end) using JUnit.
- Led cross-functional development teams, providing technical leadership, mentoring, and task prioritization to meet deadlines and project goals.
- Proficient in UI/UX design and development using Material-UI (MUI), ensuring visually appealing and responsive user interfaces.
- Extensive experience working in Agile development environments, using tools like Jira and Confluence for project management and collaboration.

Technical Skills

Databases	MySQL, Redis, MongoDB, PostgreSQL, Microsoft SQL Server, AWS Relational Database Service (RDS), Flyway
Languages	SQL, Java, JavaScript, TypeScript, HTML, CSS, PHP, C#
Frameworks/Libraries	Spring Boot, React, Redux, NextJs, Yii2, jQuery, Swagger, Material-UI (MUI), .NET MVC framework, NodeJS
Tools/Technologies	AJAX, Postman, Jira, Confluence, Git, Google Tag Manager, AWS (EC2, IoT, S3, SQS, CloudWatch Logs), Docker, Kubernetes (K8s), Kafka, ELK stack (Elasticsearch, Logstash, Kibana), Authentication & Security (Firebase Authentication, JWT, OAuth2), WebSocket, Stripe, SonarQube, OWASP, Agile Methodology.
IDEs	Eclipse, Workbench, VS Code
Testing	JUnit, unit tests, integration tests, end-to-end tests

Work Experience

Client: Ensar Solutions Inc
Full Stack Web Developer

March 2022 – Sep 2023
Naperville, Illinois

Project: ENCART- ECommerce site

- Designed and developed a scalable and responsive e-commerce platform using Java Spring Boot, Next.js, and TypeScript, ensuring optimal performance and user experience across devices.
- **Coding Standards:** Established comprehensive linting strategies and coding standards to maintain a clean and efficient codebase.
- **Authentication & Authorization:** Implemented secure mechanisms using Firebase Authentication, JWT (JSON Web Tokens), and role-based access control to safeguard user data and transactions.
- **Message Queuing & Streaming:** Integrated AWS SQS for reliable and scalable message queuing, and Kafka for real-time data streaming to handle inventory updates, order processing, and personalized user recommendations.
- **Database Management:** Used MongoDB for flexible and efficient data storage, ensuring high availability and scalability, and managed MySQL databases, including schema design, complex queries, and schema migrations using Flyway.
- **Containerization & Orchestration:** Containerized applications using Docker and managed container orchestration with Kubernetes (K8s), ensuring seamless deployment and scalability.
- **Logging & Monitoring:** Utilized the ELK stack (Elasticsearch, Logstash, Kibana) for centralized logging and monitoring, enabling proactive issue detection and system performance optimization. Monitored application performance and tracked system logs using AWS CloudWatch.

- **Caching:** Implemented Redis caching to enhance application performance, reducing load times and improving user responsiveness.
- **Payment Gateways:** Integrated multiple payment gateways, including Stripe, PayPal, Razorpay, and Cash on Delivery (COD), ensuring secure and seamless transaction processing for customers.
- **Real-Time Features:** Developed real-time order tracking and delivery updates using Kafka and WebSocket technology, providing customers with timely notifications and updates. Integrated live chat functionality using WebSocket in Spring Boot and Next.js for real-time customer support.
- **Testing & Version Control:** Ensured code quality and reliability through comprehensive unit tests, integration tests, and end-to-end tests, utilizing JUnit for automated testing. Proficient in Git for version control, including branching, merging, and collaborative development.
- **UI/UX:** Styled user interfaces using Material-UI (MUI), ensuring consistent and intuitive user experiences across devices.
- **Team Leadership:** Managed a cross-functional team of developers, providing technical leadership, task prioritization, and mentoring to deliver projects on time and within budget.
- **API Documentation:** Utilized Swagger (Front-end API documentation and testing, ensuring seamless integration and collaboration between frontend and backend teams.
- **AWS S3 Integration:** Implemented AWS S3 for efficient storage and retrieval of user-uploaded images, optimizing application performance and scalability.

Environment: Java Spring Boot, Next.js, TypeScript, Firebase Authentication, JWT, AWS SQS, AWS S3, Kafka, MongoDB, Docker, Kubernetes (K8s), ELK stack, Redis, Stripe, PayPal, Razorpay, WebSocket, Git, Material-UI (MUI), Swagger (OpenAPI), MySQL, CloudWatch, Junit, SonarQube, OWASP.

Client: Ensar Solutions Inc
Full Stack Web Developer

Jan 2022 – March 2022
Naperville, Illinois

Project: ENAUDIT

- Developed and maintained the ENAUDIT platform, leveraging React.js, Spring Boot, and MySQL to deliver robust, scalable solutions for the client's auditing needs.
- Led the front-end development using React & Next.js, implementing complex UI components and optimizing for performance with server-side rendering (SSR).
- Designed and built secure RESTful APIs and microservices with Spring Boot, utilizing Hibernate ORM, JPA, and Spring Security to ensure data integrity and secure authentication.
- Integrated JWT Authentication and Firebase for secure user authentication and role-based access control, enhancing the platform's security framework.
- Conducted unit testing using Jasmine and Karma, ensuring high code quality and reliability across the platform.
- Managed and optimized database operations, working extensively with MySQL and PostgreSQL for CRUD operations and schema management.
- Worked closely in Agile/Scrum environments, using tools like JIRA and Azure DevOps for project management and team collaboration, ensuring on-time project delivery.
- Utilized GitHub and Bitbucket for version control, collaborating on code reviews and maintaining code integrity.

Environment: React, Redux, Java Spring Boot, HTML, CSS, JavaScript, TypeScript, Swagger, Git, MySQL.

Client: Freedom Electronics

Sr. Software Developer

June 2019 – Jan 2022

Hyderabad, Telangana

Project: Freedom Electronics

- **Spearheaded full-stack PHP development** throughout all phases of the Software Development Life Cycle (SDLC), from initial project conception through design, implementation, testing, and deployment. Ensured that all deliverables met project requirements while aligning with business goals.
- **Developed and maintained front-end features** using **HTML, CSS, and JavaScript**, focusing on creating responsive and intuitive interfaces. Collaborated closely with UX/UI designers to ensure that user-facing applications delivered a seamless experience.
- **Engineered scalable and secure back-end PHP modules**, contributing to the core application architecture. Utilized **Yii2 MVC framework** to ensure efficient development of dynamic web applications, streamlining backend operations for smooth user interaction.
- **Designed and optimized databases**, ensuring the back-end portals were capable of handling large volumes of data while maintaining quick query execution. Collaborated with the database team to improve data storage and retrieval strategies, achieving higher performance and reliability.
- **Led the troubleshooting, testing, and maintenance** of the core product software and databases, actively identifying and resolving bottlenecks. This resulted in improved system optimization and reduced downtime, allowing the company to enhance the overall product offering.
- Proactively **developed and deployed new features**, improving the system's functionality and scalability to meet evolving client requirements. Worked with cross-functional teams to implement these features in line with the company's roadmap.
- **Leveraged source debuggers** to address bugs, ensuring minimal disruption in live environments. Modified client-side software as necessary, improving both back-end and front-end systems to enhance performance and user experience.
- **Consistently delivered high-quality solutions** within stringent deadlines by employing **strong time management** and organizational skills. Effectively managed competing priorities to ensure timely completion of tasks while maintaining high code quality.
- **Authored well-structured and comprehensive technical documentation**, which provided clear guidelines for system functionality, processes, and future maintenance. This improved overall project understanding and assisted in knowledge transfer to other team members.
- **Built and integrated APIs** to facilitate communication between the client software and external services, ensuring smooth interaction and seamless data exchanges. These APIs were optimized for performance, security, and scalability, allowing third-party services to integrate effectively.
- Actively participated in **team collaboration**, working with cross-functional teams, including QA, DevOps, and business stakeholders, to ensure alignment on project goals. This helped foster a cooperative work environment and ensured a unified approach to achieving project milestones.
- Focused on **security best practices**, ensuring that all code adhered to high security standards and reduced potential vulnerabilities.

Environment: PHP, Yii2 MVC, Java Spring Boot, HTML, CSS, Vue JS, jQuery, JavaScript, Git.

Delite Software Technologies Pvt Ltd

Client: UNB Bank

Software Engineer

Dec 2018 - May 2019

Hyderabad, Telangana

Project: UNB Bank

- Designed and developed the UNB Bank web application using .NET C#, HTML, and CSS.
- Worked closely with the project manager and business analysts to gather requirements and ensure that the application met the needs of the business and its users.
- Created a data management system using .NET C# to import and export bulk data from Excel spreadsheets, increasing efficiency and reducing manual errors.
- Developed an import button using HTML and CSS to make the data management system more user-friendly and accessible.
- Worked in an Agile development environment, collaborating with a cross-functional team to deliver high-quality software on time and within budget.

Environment: .NET C#, HTML, CSS, Data Management, Excel, Agile Development.

Client: Site-IQ

Software Engineer

Dec 2017 - Oct 2018

Hyderabad, Telangana

Project: Site-IQ

- Deployed and maintained the Site-IQ project infrastructure in the AWS Cloud, leveraging services such as EC2, RDS, and S3 for scalable storage and compute solutions.
- Developed customized monitoring solutions using AWS CloudWatch Logs and created alarms to ensure high availability, reliability, and uptime for the platform.
- Connected and managed distributed devices and sensors using AWS IoT, providing real-time data collection and insights for end users.
- Engineered Lambda functions to automate critical workflows, streamlining both development and testing processes for greater efficiency.
- Conducted data analysis and transformation using advanced Python techniques (e.g., data splitting, stripping), extracting valuable insights to enhance platform performance.

Environment: AWS CloudWatch Logs, AWS IoT, AWS Lambda, Python, EC2, RDS, S3.

Client: Red Bench
Software Engineer

Aug 2017 - Dec 2017
Hyderabad, Telangana

Project: Red Bench

- Played a key role in the **design and development** of the Red Bench platform, collaborating with a cross-functional team of developers, product managers, and content creators to deliver a seamless user experience.
- Designed **wireframes, user flows, and interactive prototypes** using **Adobe XD**, driving the iterative design process and refining the overall user experience.
- Led efforts in **user research and usability testing**, gathering critical feedback from end users to inform design decisions and improve the platform's functionality and appeal.

Environment: Adobe XD, User Research, Prototyping, Usability Testing.

Education

- **Master of Science in Information Technology Management**, Campbellsville University, Louisville, KY (Graduated).
- **Bachelor of Technology (B.Tech.) in Electronics & Computer Engineering**, JNTUK, Vijayawada.