

Tharun Derangula

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PROFESSIONAL SUMMARY

- Full-stack engineer with over 5+ years of experience in the **Software Development Life Cycle (SDLC)**, including requirements analysis, design, development, testing, and deployment of scalable enterprise applications.
- Extensive experience in **Front-end, Back-end, and Full Stack Software Development**, with a focus on building scalable, secure, and maintainable enterprise applications.
- Skilled in **Test-Driven Development (TDD)** and **Agile methodologies**, including **SCRUM** and **Kanban**.
- Proficient in **Angular UI development** using **TypeScript, HTML, CSS**, with expertise in **Angular versions 9, 12, 14, 15**.
- Extensive experience in **JavaScript (ES6+)** and **TypeScript** for both front-end and back-end development.
- Expertise in **state management** and **asynchronous operations** using **NgRx** and **RxJS** in Angular applications.
- Experience with **React hooks** and **Redux** for state management in React-based applications.
- Solid understanding of **Virtual DOM** and **Real DOM** structures for optimized UI rendering.
- Proficient in various CSS libraries such as **Material-UI**, **Styled-components**, and **Emotion-styled**.
- Developed reusable **front-end component libraries** using **Storybook** to ensure consistency and maintainability across applications.
- Hands-on experience in **unit testing and integration testing** using frameworks like **Jasmine**, **Jest**, **Mocha**, **Cypress**, **Playwright**, and **Cucumber**.
- Proficient in **backend development** using **Java (8, 11)**, with strong knowledge of features like **Streams**, **Functional Interfaces**, and **Parallel Streams**.
- Expertise in **Core Java** concepts such as **Garbage Collection**, **Collections Framework**, **Multithreading**, **Exception Handling**, and **Generics**.
- Skilled in designing and developing back-end solutions using **Spring Frameworks (Spring Boot, Spring Batch, Spring Web MVC, Spring AOP)** and **Hibernate**.
- Experienced in building **microservices architecture** and developing **RESTful APIs** using **Java-Spring Boot** and **NodeJS**, with secure communication using **JWT Tokens**.
- Hands-on experience in **Docker** and **Kubernetes** for containerization and orchestration, scaling services as needed.
- Proficient in setting up and managing **CI/CD pipelines** using tools like **Jenkins**, **Git**, **Bitbucket**, and **GitLab**.
- Skilled in working with **AWS services**, including **EC2**, **S3**, **Lambda**, **CloudFront**, **CloudWatch**, and **Elastic Cache**.
- Extensive experience with **RDBMS (Oracle, PostgreSQL, MySQL)** and **NoSQL databases (MongoDB)**, including creating triggers, stored procedures, and PL/SQL scripts.
- Developed and consumed **JSON-based RESTful web services** with efficient integration into enterprise applications.
- Proficient in **design patterns** like **Model-View-Controller (MVC)**, **Singleton**, and **Factory Patterns** for scalable solutions.
- Experienced in using **Apache Kafka** for building **real-time streaming services** for data transactions.
- Expertise in maintaining code quality and reliability using **SonarQube** and ensuring adherence to coding standards.
- Skilled in using modern IDEs such as **Visual Studio Code**, **IntelliJ**, **Eclipse**, and **WebStorm** for efficient development.
- Deployed and managed applications on servers like **Apache Tomcat** and **WebSphere**.
- Debugged production issues using **Splunk**, **Kibana**, and **CloudWatch logs** to enhance application performance and reliability.
- Developed and managed **monitoring dashboards** using **Grafana** and **Dynatrace** to track service performance.
- Experienced in **Linux/UNIX Shell Scripting** and deploying applications on server environments.
- Collaborated with **Release Management Teams** to manage builds and deployments across environments such as **DEV, QA, UAT, and Production**.
- Actively participated in **code reviews**, **design architecture**, and **incident management for production issues**.
- Mentored team members and interns by providing guidance on **design patterns**, **code reviews**, and **best practices**.
- Demonstrated ability to **rewrite legacy systems** into modern architectures using the latest front-end and back-end tech stacks.
- Strong communication skills, with experience in **internal demos**, **technical presentations**, and effective stakeholder collaboration.
- Proven ability to handle **multiple tasks** in agile environments while delivering business-critical features.

TECHNICAL SKILLS

- **Languages:** Java, JavaScript, TypeScript, Python, C, C++,
- **Databases:** SQL, MySQL, MongoDB, Oracle, Snowflake, PostgreSQL
- **Front-end:** HTML, CSS, JavaScript, React, Angular, Ngrx, Rxjs, jQuery, Bootstrap, Redux, Jest, React Testing Library.
- **Back-end:** Node.js, Spring Boot, REST API, Express.js, Django, Docker, Kafka, Kubernetes, AWS, AWS Lambda, Postman.
- **Other:** Data Structures, OOP, CI/CD, GIT, TCP/IP, Bitbucket, Kanban, Jira, Agile methodologies, SDLC, Linux, Jest, Junit.
- **Development Tools:** Visual Studio Code, IntelliJ IDEA, Eclipse, Postman, JIRA, SonarQube, Splunk, Grafana, Scrum.
- **Software Engineering Competencies:** Object Oriented Programming, Distributed Systems, System Design, Problem-solving, Design Patterns, TDD, Collaboration, Communication, Adaptability, Leadership.

EDUCATION

Masters in information technology

Kennesaw State University

GPA: 3.9/4.0

Bachelors in computer science and engineering

Lovely Professional University

GPA: 3.7/4.0

EXPERIENCE

Senior Software Engineer | HubSpot, USA

January 2024 – Present

- Architected and deployed **microservices-based** solutions using **Java Spring Boot**, handling over 5M+ daily API requests with **99.9% uptime**, leveraging **Docker** and **Kubernetes** on **AWS EC2** for scalable cloud infrastructure.
- Developed and optimized **React** and **TypeScript** based customer-facing applications, improving page load performance by **40%** through code splitting, lazy loading, and implementing **Redux** for efficient state management.
- Built robust **RESTful APIs** using **Java Spring Boot** and **Spring MVC**, integrated with **PostgreSQL** and **MySQL** databases, reducing average query response time by **35%** through **Hibernate** query optimization and **Redis** caching strategies.
- Implemented comprehensive **CI/CD pipelines** using **Jenkins** and **Maven**, automating deployment processes that reduced release cycle time by **50%** while maintaining code quality standards with **SonarQube** and **JUnit** testing frameworks.
- Led full-stack development of a real-time analytics dashboard using **React**, **TypeScript**, **Redux**, and **Recharts**, processing data from **PostgreSQL** and **Spring Boot** backend to provide actionable insights for 10K+ enterprise customers.
- Enhanced system reliability and monitoring by implementing **Grafana** dashboards and **AWS CloudWatch** metrics, proactively identifying and resolving **95%** of production issues before customer impact through **Spring Boot Actuator** health checks.
- Collaborated with cross-functional teams in **Agile/Scrum** environment using **JIRA**, leading technical design reviews and mentoring 3 junior engineers on **Spring Boot**, **JPA/Hibernate**, **system design**, and **OOP principles**.
- Optimized database performance across **PostgreSQL** and **MySQL** instances using **JPA/Hibernate**, implementing indexing strategies and query refactoring that improved application throughput by **45%** and reduced **AWS RDS** costs by \$150K annually.
- Tech Stack:** Java, Spring Boot, React, TypeScript, PostgreSQL, MySQL, Redis, Docker, Kubernetes, AWS, Jenkins, JUnit, Grafana

Software Engineer | Aveva, India

August 2021 – December 2022

- Developed enterprise **web applications** using **Java Spring Boot** and **Angular**, delivering real-time **data analytics** and visualization platforms serving **100K+ daily active users** across energy and manufacturing industries
- Built high-performance **RESTful APIs** using **Spring Boot** and **Hibernate ORM**, processing **10M+ records daily** from **SQL Server** databases with **99.8% uptime** and sub-200ms response times
- Designed and implemented **responsive dashboards** using **Angular**, **TypeScript**, and **RxJS**, reducing data loading time by **50%** through lazy loading and optimized **API** integration patterns
- Engineered **data integration microservices** using **Java** and **Spring Boot**, automating ETL workflows that processed **5TB+ monthly data volume** and reduced manual processing time by **65%**
- Implemented **CI/CD pipelines** using **Jenkins** and **Maven**, containerized applications with **Docker**, and deployed to **Azure Cloud**, reducing deployment time by **70%** and improving release frequency
- Optimized database performance through query tuning, indexing strategies, and **Redis** caching implementation, improving application throughput by **45%** and reducing infrastructure costs by **\$80K annually**
- Collaborated in **Agile/Scrum** teams using **JIRA**, conducted code reviews, achieved **90%+ code coverage** with **JUnit** and **Jasmine** tests, and documented technical specifications for cross-team projects
- Tech Stack:** Java, Spring Boot, Angular, TypeScript, RxJS, SQL Server, MongoDB, Redis, Docker, Azure, Jenkins, Maven, JUnit, Jasmine, REST API, Git, JIRA

Software Engineer | Xebia, India

May 2019 – August 2021

- Developed and maintained **full-stack web applications** using **Java Spring Boot** and **React**, delivering features for banking and e-commerce clients that served **50K+ end users** with **99.5% uptime**
- Built **RESTful APIs** using **Spring Boot** and **Spring MVC**, integrated with **MySQL** and **PostgreSQL** databases, implementing CRUD operations and business logic for client-facing applications
- Designed and implemented **responsive UI components** using **React** and **JavaScript**, collaborating with UX designers to create intuitive user interfaces that improved user engagement by **30%**
- Developed authentication and authorization modules using **Spring Security** and **JWT**, implementing role-based access control for enterprise applications handling sensitive financial data
- Wrote comprehensive unit and integration tests using **JUnit** and **Mockito**, achieving **85%+ code coverage** and reducing production bugs by **40%** through rigorous testing practices
- Participated in **Agile/Scrum** development cycles, attending daily standups, sprint planning, and retrospectives, while using **JIRA** for task tracking and consistently delivering features within sprint timelines
- Collaborated with senior engineers on code reviews, implemented feedback to improve code quality, and contributed to team documentation for **REST API** design patterns and coding standards
- Assisted in **CI/CD pipeline** setup using **Jenkins** and **Docker**, automated build and deployment processes that reduced manual deployment efforts and improved team productivity
- Tech Stack:** Java, Spring Boot, React, JavaScript, MySQL, PostgreSQL, Docker, AWS, Git, Jenkins, JUnit, Mockito, REST API, Agile

ACHIEVEMENTS

- Achieved AWS Cloud Practitioner certification, emphasizing my proficiency in managing cloud services and infrastructure.
- As a GRA, mentored 200+ students in coding, debugging, and algorithmic problem solving, increasing satisfaction by 30%.

CERTIFICATIONS

- Google UX Design Professional Certificate
- Meta Full-stack Developer Professional Certificate
- Microsoft Full-Stack Developer Professional Certificate