Tharun Rajeev

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SKILLS

Programming Languages:	Java, Kotlin, Python, C#, C++, JavaScript, SQL, HTML, CSS.
Frameworks & Technologies:	Dotnet Framework, NodeJS, ReactJS, AngularJS, NextJS, GraphQL, Kafka, Spark, .Net Core, WiseJ.Net, Flask, WPF, JWT, Window Forms, InstallShield, DevExpress, Postman.
Software Engineering:	Agile SDLC, DSA, Microservices, Containers, Deployment Strategies, System design, Design patterns, OOP, Rest APIs, JIRA, Swagger Hub, Task Estimation.
Cloud, Version Control & DevOps:	AWS, Azure, Docker, Docker compose, Kubernetes, GitHub, Jenkins.
Machine Learning & Data Analysis:	Pandas, NumPy, Matplotlib, Seaborn, PyTorch, TensorFlow, Keras, Scikit-Learn.
Certifications:	AWS Certified Developer Associate, AWS Certified Solution Architect, AWS Certified Cloud Practitioner, Kaggle Data Science , AWS Fundamentals, Python DS.

PROFESSIONAL EXPERIENCE

One Advanced, Bangalore, India |Software Engineer Jan 2021 – June 2023
- Developed a robust full-stack C# application with secure authentication and authorization features, streamlining Active Directory user synchronization for **10+ UK-based law firm clients**. Effectively communicated technical details to stakeholders, enhancing access management processes.
- Established and optimized CI/CD pipelines, automating testing, security, and hot reload deployments, achieving **80% code coverage** with **1500+ unit test cases** and reducing build time by **77%** for a desktop application through task parallelization and elimination of redundant DLL checks.
- Architected, deployed, and scaled AWS infrastructure using services like S3, EC2, CloudWatch, and Load Balancer, improving system reliability and scalability. Incorporated IAM roles and bucket policies, ensuring secure data access.
- Engineered **15+ reusable C# front-end components**, reducing redundancy cutting development time by **25%**, and migrated them to JavaScript with WiseJ.Net to preserve business logic during cloud transition.
- Deployed an automated build and deployment pipeline for artifacts into AWS S3, streamlining the hotfix deployment process and reducing manual intervention time.
- Led and served as Scrum Master for a cross-functional team of 6 (4 developers, 1 quality engineer, 1 business analyst), optimizing Sprint Planning and Backlog Grooming processes to enhance collaboration and achieve sprint targets **20%** faster while increasing overall team productivity by **15%** through targeted skill development initiatives.
- Wrote unit test cases covering **80%** of new code in XUnit (.Net, C#), improving test coverage and reducing the likelihood of defects in production.
- Conducted regular code reviews and debugging sessions, enhancing code quality, and reducing production issues.

JSW Steel Ltd, Mumbai, India | Software Developer Intern Dec 2019 - Mar 2020
- Addressed and resolved **20+ bugs** in a ReactJS web application, boosting system stability by **18%** and improving user experience through performance optimizations and feature enhancements.
- Formulated a barcode and QR code generation system in Java, facilitating the unique identification of **5,000+ materials**, cutting manual inventory tracking errors by **25%** and streamlining production workflow efficiency.
- Managed PostgreSQL databases, optimized **30+ complex queries**, and improved overall data access efficiency by incorporating GraphQL and Elasticsearch.

TATA Technologies, Mumbai, India |Software Developer Intern Mar 2019 - Aug 2019
- Revamped backend search logic in Node.js by integrating database indexing and Redis caching strategies, slashing response times from **5s to 1s (80% performance boost)** for an MVP.
- Optimized machine learning algorithms using python through TensorFlow NLP for evaluating metrics, achieving a **30%** reduction in development time.

EDUCATION

California State University Long Beach, CA Aug 2023 - May 2025
Master of Science in Computer Science

SRM Institute of Science and Technology, Chennai, India Aug 2017 - June 2021
Bachelor of Engineering in Information Technology

PROJECTS

Real-time Streaming Analytics Application
- Developed with Kafka and Spark Structured Streaming to process over 1M daily taxi trips. Faced the challenge of ensuring low-latency data processing for time-sensitive fleet and pricing decisions, resolved by optimizing Spark jobs with advanced partitioning and efficient checkpointing, reducing data processing time by **40%**.
- Led Kafka Connect integration with Cassandra, handling **1,000+ queries/second**. Overcame data pipeline reliability issues with retries and dead-letter queues and optimized database indexing for scalable analytics.

Social Cop
- Developed an Android app using MongoDB to store **8,000+ posts** and AWS S3 for complaint image storage, with Node.js handling server-side, dynamically scaling servers to reduce latency by **30%** and handle up to **5,000** concurrent requests.
- Built the app's user interface with Java in Android Studio, utilizing Retrofit for multi-screen UI and automated email notifications to officials via SMTP based on complaint type.