

SURYA S

Full Stack Developer | Java • Spring Boot • Node.js • React.js • AWS • Microservices

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PROFESSIONAL SUMMARY

Full Stack Developer with 1.5+ years of professional experience across the full Software Development Life Cycle (SDLC), designing, building, and deploying scalable web and mobile applications using Java, Spring Boot, Node.js, TypeScript, React.js, and AWS. Proven track record delivering production-grade microservices, RESTful APIs and GraphQL services, real-time communication systems, and secure financial transaction platforms within Agile/Scrum environments. Strong foundation in Object-Oriented Programming (OOP), Data Structures and Algorithms, system design, relational database optimization, containerized cloud deployments (Docker, Kubernetes, Terraform), CI/CD automation, and Test-Driven Development (TDD). Recognized for improving application performance, reducing latency, strengthening security, and accelerating delivery cycles through strong cross-functional collaboration and clear technical communication.

KEY ACHIEVEMENTS

- Reduced ride-dispatch latency by 35% by engineering a real-time GPS tracking and WebSocket-based matching system for a production ride-hailing platform.
- Sustained a 99.99% payment transaction success rate on a secure financial platform through AES-256 encryption, RBAC, and JWT authentication.
- Improved API response times by 40% by rewriting and optimizing PostgreSQL/MySQL queries and index structures under heavy concurrent load.

CORE TECHNICAL SKILLS

Languages: Java, TypeScript, JavaScript (ES6+), Python, SQL, Dart, Swift, HTML5, CSS3

Frontend: React.js, Next.js, Angular, Redux, Context API, RxJS, Responsive Web Design, Bootstrap, Tailwind CSS, Cross-Browser Compatibility

Backend: Spring Boot, J2EE, Node.js, Express.js, Django, RESTful API Design, Microservices Architecture, GraphQL, WebSocket, WebRTC, OAuth 2.0, JWT Authentication

Databases: PostgreSQL, MySQL, Redis, NoSQL, Database Design, Query Optimization, Indexing, Data Modeling

Cloud & DevOps: AWS (Lambda, API Gateway, EC2, RDS, S3, SNS, SQS, CloudWatch), Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, CI/CD Pipelines, Infrastructure as Code

Testing & Practices: Jest, JUnit, TDD, Unit & Integration Testing, End-to-End Testing, Debugging & Troubleshooting, Git/GitHub, OpenAPI/Swagger

Methodologies & Soft Skills: Agile/Scrum, Kanban, Sprint Planning, Code Reviews, Pair Programming, System Design, Design Patterns, Technical Documentation, Cross-Functional Collaboration, Mentoring, Problem-Solving, Communication

PROFESSIONAL EXPERIENCE

Software Developer – Full Stack — Deutsche Roboter Systeme Pvt. Ltd., Chennai, India *June 2024 – October 2025*

- Built a microservices backend in Java/Spring Boot paired with Flutter mobile applications for a ride-hailing platform serving both riders and drivers, working within Agile/Scrum sprint cycles for iterative delivery.
- Engineered real-time GPS tracking (Google Maps SDK) and WebSocket-based live ride matching, reducing dispatch latency by 35% and improving overall application performance; containerized and deployed microservices with Docker on AWS EC2, backed by AWS RDS for optimized relational transactions.

- Co-developed a peer-to-peer real-time video communication platform using WebRTC, a Spring Boot signaling server, and a Node.js RESTful API; containerized with Docker, deployed to AWS EC2, and instrumented with AWS CloudWatch for system performance monitoring.
- Delivered a secure transactional financial application (React.js frontend, Node.js/Express backend, serverless AWS Lambda payment endpoints) implementing AES-256 encryption, role-based access control (RBAC), JWT authentication, and transactional audit logging — sustaining a 99.99% payment transaction success rate.
- Rewrote and optimized relational database queries and index structures in PostgreSQL and MySQL, improving API response times by 40% and reducing database lock contention under heavy concurrent traffic.
- Designed reusable React.js and TypeScript component libraries, reducing frontend development cycle time by 25% and improving code consistency across cross-functional product teams.
- Built automated CI/CD deployment pipelines using GitHub Actions, decreasing manual deployment effort; developed Jest and JUnit test suites under a Test-Driven Development (TDD) model, maintaining 92%+ code coverage during zero-downtime, blue-green deployments provisioned via Terraform, and participated in Agile ceremonies including sprint planning and code reviews.

KEY PROJECTS

Ride-Hailing Application (Customer & Driver Interfaces) *(Java, Spring Boot, Flutter, MySQL, AWS EC2/RDS/SNS/SQS, WebSocket, Docker)*

- Designed an event-driven microservices backend utilizing Spring Boot and WebSockets for real-time localization and booking synchronization, leveraging AWS SQS to handle spikes in concurrent messaging volume.

Secure Transactional Financial Gateway *(Java, Spring Boot, React.js (TypeScript), MySQL, AWS Lambda, API Gateway, Terraform, Docker)*

- Engineered a serverless financial interface incorporating JWT authentication, secure Stripe mock webhooks, and automated ledger entries; provisioned repeatable, multi-environment cloud infrastructure using Terraform.

Real-Time Video Communication Suite *(Node.js (TypeScript), Spring Boot, WebRTC, Docker, AWS EC2, Jest, REST APIs)*

- Created a secure peer-to-peer communications hub using WebRTC and a performant Node.js signaling server, validated by comprehensive integration and unit testing with Jest.

Software Defect & Lifecycle Tracking Engine *(Python, Django, MySQL, REST API, HTML5, CSS3, JavaScript)*

- Developed an enterprise-grade tracking platform featuring dynamic role-based access control (RBAC), a secure CRUD lifecycle, and a highly responsive user interface, reducing bug-resolution feedback loops.

Responsive Cloud-Native Web Portal *(React.js (TypeScript), Node.js, Express.js, PostgreSQL, AWS S3, Redux)*

- Designed a pixel-perfect, WCAG-compliant responsive interface backed by a secure REST API and optimized PostgreSQL schema, storing heavy assets securely via AWS S3.

EDUCATION

Bachelor of Engineering (B.E.), Computer Science & Engineering

Anna University — Tamilnadu College of Engineering, Coimbatore | 2020 – 2024 | CGPA: 7.72/10.0, First Class with No Backlogs

CERTIFICATIONS & LANGUAGES

AWS Certified Developer – Associate — Amazon Web Services (In Progress) • Python Fundamentals — Edureka • ChatGPT & AI Tools Certification — PDAC

Languages: English (Professional Working Proficiency) • Tamil (Native) — proficient in written and spoken communication