

Yennam Santhosh Kamal Murthy

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SUMMARY

Full Stack Developer with 3+ years of full-time experience specializing in both frontend and backend technologies. Proficient in Java, Spring Boot, TypeScript, React.js, and Node.js. Skilled in developing scalable applications, integrating diverse technologies, and optimizing system performance. Strong foundation in data structures, algorithms, and system design. Demonstrated ability to deliver high-quality solutions across various projects and industries.

EDUCATION

Master of Science in Computer Science GPA: 4/4

Campbellsville University – Louisville, Kentucky | Jun 2023 – Mar 2025

Bachelors in Computer Science GPA: 8.1/10

Osmania University – Hyderabad, India | Aug 2017 – Jun 2021

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Typescript, C language, C++, Kotlin and Python.

Cloud Technologies and DevOps: Git, AWS, Docker, Kubernetes, CI/CD, Ansible, Terraform, Rancher, Harness, Grafana, Prometheus, Shell Scripting, Maven, JFrog and GCP.

Web Technologies, Databases and Others: React JS, Redux, Next JS, Vue JS, Android Development, HTML5, CSS, Bootstrap, Material UI, Tailwind, Spring Boot, Node JS, Flask, PHP, MySQL, Postgres, MongoDB, Elastic Search, Redis, SQLite, Kafka, RabbitMQ, RESTful APIs, GraphQL, WebSockets, GRPC, OAuth, Nginx, HAProxy, JMeter, JUnit, Mockito and Jest.

WORK EXPERIENCE

Backend Developer

The Kroger Co, Ohio, USA – Cincinnati, Ohio | Jan 2024 – Dec 2024

- Architected robust Spring Boot backend systems with PostgreSQL integration, implementing optimized database queries and connection pooling that improved data retrieval efficiency by 60% while supporting 3x higher concurrent user load.
- Established robust security infrastructure using Spring Security with OAuth, implementing role-based access controls that reduced unauthorized access attempts by 100%.
- Orchestrated microservices architecture using Apache Kafka for event-driven communication, incorporating REST templates and maintaining 85%+ test coverage with JUnit and Mockito.
- Accelerated system diagnostics capabilities by integrating Grafana and Prometheus monitoring tools, diminishing incident resolution time by 65% and enhancing overall system reliability by 50%.
- Elevated deployment efficiency by 80% through implementing Docker, Kubernetes and Helm-based infrastructure, while streamlining system operations via Rancher dashboard monitoring that improved resource utilization by 45%.
- Designed and deployed Elasticsearch integration that enabled complex search functionality with sub-second response times even at peak load periods.
- Led implementation of global exception handling framework that standardized error responses across the platform, significantly improving troubleshooting efficiency.
- Developed reusable validator annotations for API requests, standardizing data validation across microservices and decreasing invalid input errors by 75%.
- Engineered custom interceptors for request/response processing, enabling fine-grained control over authentication flows and improving system audit capabilities.
- Executed rigorous performance testing with JMeter across 3 distributed VMs, generating consistent 100 TPS from each server while monitoring application behavior through customized Grafana dashboards.

Full Stack Developer

Zemoso Technologies Pvt Ltd – Hyderabad, India | Aug 2021 – Jan 2023

- Designed and delivered a comprehensive Privacy API ecosystem supporting 120K+ users, featuring ReactJS/Redux frontend and multi-platform SDKs that accelerated client integration time by 65%.
- Secured sensitive data processing infrastructure through implementing Okta authentication and PCI-compliant payment widgets, resulting in 100% security compliance across 250+ enterprise accounts.
- Transformed service communication efficiency by implementing GraphQL and GRPC protocols, yielding 55% faster API response times and reducing data transfer overhead by 40%.
- Boosted global application performance by 75% through AWS CloudFront optimization, while automating deployment pipelines that decreased release cycles from days to hours.

- Enhanced application reliability by 80% through implementing comprehensive Jest, Mockito, and JMeter testing frameworks, while establishing code quality gates that prevented 95% of potential defects .
- Optimized backend processing capabilities through Redis caching implementation, achieving 70% faster data retrieval and deploying RabbitMQ message queuing that improved system throughput by 60% .
- Crafted elegant multi-tenant architecture with Okta authentication, allowing enterprise clients to manage user permissions with granular access controls.
- Implemented scalable state management architecture using Redux, enabling predictable data flow and seamless component communication across the application while significantly reducing prop drilling and related bugs.
- Transformed detailed Figma mockups into polished user interfaces using Material UI component library, ensuring precise visual fidelity and consistent user experience across all application modules.
- Developed custom widgets for secure credit card information processing that maintained strict PII/PCI compliance while providing intuitive user experience .
- Architected cross-platform SDK strategy enabling client integrations across Android, iOS, and web platforms with unified security and functionality.
- Established automated daily smoke and regression testing pipeline that identified issues early and delivered actionable feedback to development teams via Slack.

Full Stack Developer (Internship)

Zemoso Technologies Pvt Ltd – Hyderabad, India | Aug 2020 – July 2021

- Engineered robust full-stack applications utilizing Vue.js and Vuetify frontend frameworks coupled with Flask backend.
- Architected secure RESTful API infrastructure with JWT authentication implementation, ensuring proper data encryption and authorization protocols that maintained system integrity.
- Optimized application performance through strategic Redis caching implementation, significantly reducing database load while maintaining consistent response times during high-traffic periods.
- Designed and normalized MySQL database schemas following best practices, creating efficient data models that supported scalable application growth.
- Implemented comprehensive MongoDB solutions for unstructured data requirements, leveraging document-based architecture to enable flexible data storage and retrieval.
- Established quality assurance processes through integration of ESLint, Prettier, and Webpack toolchains, standardizing code quality metrics across development teams.
- Executed end-to-end testing methodologies for critical application components, identifying and resolving potential issues before deployment.
- Collaborated with cross-functional teams to translate business requirements into technical specifications, ensuring alignment between stakeholder expectations and delivered solutions.
- Contributed to development of PHP applications using XAMPP stack, creating internal tools that improved operational efficiency.
- Implemented comprehensive password security using bcrypt hashing algorithms, ensuring protection of sensitive user credentials in compliance with security best practices.