

Yasaswini Vedula

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PROFESSIONAL SUMMARY

Full Stack Software Engineer with 3+ years of professional experience in full software development life cycle (SDLC) including system design, coding standards, code reviews, version control, testing, deployment, and production operations. Proven ability to architect scalable and reliable microservices, design reusable frontend components, and integrate REST APIs using JavaScript (React, Node.js), Java (Spring Boot), and .NET. Hands-on with AWS (EC2, S3), CI/CD pipelines (GitHub Actions, Jenkins), and relational databases (PostgreSQL, MySQL, Oracle). Strong foundation in object-oriented design, design patterns, and system reliability engineering.

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Typescript, C, Python, ABAP

Development: React, Next.js, Angular, Node.js, Spring Boot, Hibernate, HTML, CSS, Tailwind C, RESTful APIs, J2EE

Database: MySQL, SQL Server, Oracle, PostgreSQL, MongoDB

Cloud & Deployment: AWS (Lambda, EC2, S3, RDS), Azure, CI/CD, Git

DevOps & Tools: GitHub Actions, Jenkins, Postman, Docker, Kubernetes, Jira, Confluence, MS Visio

Methodologies: Agile Scrum, Jira, Functional/Technical Requirement Analysis

WORK EXPERIENCE

Software Engineer / TANTV Studios- VA

May 2024 – Feb 2025

- Engineered a scalable **microservices-based** media platform connecting creators and publishers, using **Next.js, Bootstrap, and .NET APIs**, improving UI responsiveness and backend efficiency.
- Applied design patterns and architectural principles to optimize system reliability, resulting in a 19% reduction in backend response times through caching and API refactoring.
- Integrated a chatbot using **OpenAI API**, enabling real-time user interaction and reducing manual searches by 63% for content and improving accessibility.
- Led secure **system design** by implementing **OAuth 2.0 and JWT** for role-based access and API protection.
- Automated end-to-end **CI/CD pipelines with GitHub Actions and Vercel**, improving deployment reliability and reducing time to production by 41%.
- Participated in daily **agile** meetings, sprint planning, and code reviews to ensure code quality and alignment with team standards.

Full Stack Developer (Senior Systems Engineer) / Infosys

May 2022 – Jan 2023

- Designed and coded a real-time server monitoring and alerting system using **React and Spring Boot**, enabling early detection of system failures and reducing incident response time, leading to a 20% decrease in system downtime.
- Built interactive **dashboards** with real-time system metrics and integrated logging tools to monitor CPU usage, memory consumption, and API latency while automating issue detection for faster troubleshooting.
- Optimized **PostgreSQL** database queries with indexing and partitioning, reducing query latency by 30% for high-volume analytics dashboards.
- Standardized frontend request batching and backend caching strategies, improving **API** performance by 35% and system throughput under load.
- Followed secure coding practices, participated in peer code reviews, and contributed to test automation scripts, ensuring high maintainability and coverage.

Systems Engineer/ Infosys

Jan 2022 – May 2022

- Developed and tailored 15+ ABAP programs, reports, and interfaces to align with business requirements, ensuring integration with SAP modules.
- Restructured database designs, improving system performance and data retrieval efficiency by 20%.
- Automated key business processes, reducing manual intervention by 30% leading to time savings of 15 hours per week.
- Improved SAP transactions using BADI and BAPI within the Enhancement Framework, boosting efficiency by 15%.

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PROJECTS

Full-stack Web Application for Student Feedback Management System **Jan 2024 – May 2024**

- Architected web applications using **React, Angular, and Spring Boot**, deploying on **AWS (S3, EC2)** for scalability.
- Leveraged **React Hooks** for efficient **state management**, reducing unnecessary re-renders and improving component performance.
- Streamlined **RESTful APIs** and optimized **MySQL** with JPA/JDBC, reducing query execution time and enhancing data flow.

Ecommerce Platform with Personalized Recommendations **Aug 2023 – Dec 2023**

- Built a **React + Node.js** platform with secure checkout and personalized product recommendations.
- Engineered a **TensorFlow.js-based ML** recommendation engine, increasing customer engagement by 20%.

EDUCATION

George Mason University **Jan 2023 – Dec 2024**

Master Of Science (M.S.), Computer Science **GPA: 3.83/4.00**

Vignan's Institute of Information Technology **Jun 2016 – May 2020**

Bachelor of Technology (B. Tech), Computer Engineering **GPA: 4.00/4.00**

FELLOWSHIP

- University Innovation Fellow, Stanford University.