Aasritha Sakhamuri
Software Engineer | Java Developer | Backend Developer | Frontend Developer
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Professional Summary
Graduate student in Computer Science with 1+ years of experience in backend and frontend development using Java, Spring Boot, ReactJS and RESTful APIs. Proficient in building cloud-native applications on AWS, integrating scalable frontends with AngularJS, and automating deployments using Docker and Jenkins. Strong foundation in Agile methodologies, CI/CD pipelines, TDD, and SQL/NoSQL database optimization. Actively seeking entry-level roles in backend or full-stack software development.

Technical Skills
Languages: Java, Python, C, C++, Shell Scripting
Backend: Spring Boot, REST APIs, Hibernate, JUnit, Microservices
Frontend: ReactJS, HTML5, CSS3, JavaScript, Bootstrap
Databases: MongoDB, MySQL, SQL Server
Cloud/DevOps: AWS (EC2, S3, RDS, VPC), Docker, Kubernetes, Jenkins, CI/CD
Tools & Methodologies: Git, Jira, Agile (Scrum), TDD, OOP, Design Patterns

Education
University of Central Missouri, Warrensburg, MO
M.Sc., Computer Science | CGPA: 3.4 | Aug 2023 – May 2025
Courses: Advanced Database Systems, Operating Systems, Advanced Algorithms, Application Programming in C# and .NET, Programming Foundations in Data Science and AI, Compiler Design and Construction.
Vasireddy Venkatadri Institute of Technology, AP, India
B.Tech., Information Technology | CGPA: 8.75/10 | Jul 2019 – May 2023
Courses: Advanced Java Programming, Data Structures, Python Programming, Software Engineering, Unix and Shell Programming, Design and Analysis of Algorithms, Artificial Intelligence, Cloud Computing, Web Technologies, DevOps.

Professional Experience
Software Developer Intern – Focalone Soft Inc. (Remote) | Jan 2025 – Present
- Engineered scalable backend services and REST APIs using Java and Spring Boot, reducing processing time by 30%.
- Designed responsive ReactJS frontends integrated with backend systems, improving UI performance by 40%.
- Optimized SQL Server stored procedures and queries, increasing database performance by 25% and reducing CPU usage by 20%.
- Automated CI/CD pipelines in Agile sprints using Jenkins and Docker, cutting deployment time by 50%.

Software Engineer Intern – Virtusa IT Services and IT Consulting, India | Jan 2023 – Apr 2023
- Implemented RESTful APIs to support banking workflows, improving transaction reliability by 20% and reducing response failures by 15%.
- Developed dynamic UI components and integrated frontend-backend pipelines, enhancing user task efficiency by 35% and reducing page latency by 25%.
- Streamlined MySQL queries and optimized relational data handling, reducing DB load by 30%.
- Participated in Agile ceremonies and TDD practices, increasing test coverage to 85% and reducing QA backlog by 50%.

AWS Cloud Intern – AICTE NEAT, India | Mar 2022 – May 2022
- Deployed a cloud-based café website, improving uptime to 99.9% and reducing page load time by 35% across multiple regions.
- Automated infrastructure deployment and monitoring, increasing deployment stability by 40% and reducing manual intervention by 60%.
- Designed secure cloud environments, achieving 100% access control compliance and eliminating unauthorized access incidents.
- Optimized architecture and resource usage, reducing cloud operating costs by 25% while maintaining high availability.

Academic Projects
Resume Analyzer
- Engineered a full-stack resume analysis system using Java, Spring Boot, and React.js to automate resume scoring, achieving 90%+ accuracy and reducing manual review time by 70%.
- Tech: Java 21, Spring Boot, React.js, Apache Tika, Jackson, REST API, HTML/CSS
Mobile Food Truck Ordering System
- Built a full-stack web application using Flask and MongoDB, reducing order placement load time by ~35%.
- Tech: Python 3.6, Flask, MongoDB, HTML, CSS, JavaScript
Live Image Segmentation (Mask R-CNN)
- Improved segmentation accuracy by 30% and processing speed by 40% using Mask R-CNN and TensorFlow for image recognition.
- Tech: Python 3.6, Anaconda, TensorFlow, and OpenCV are the technologies used. (Publication)

Certifications
- AWS Certified Developer Associate: AWS
- Microsoft Azure Fundamentals: Microsoft
- Connecting to MongoDB Database: MongoDB University
- JavaScript Algorithms and Data Structures: freeCodeCamp
- Responsive Web Design: freeCodeCamp