

VAMSHI KRISHNA

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Summary

Passionate Software Engineer with 3+ years of experience in full-stack and microservices development. Skilled in **Python, Java, ReactJS, and Spring Boot**, with a track record of boosting system efficiency and user engagement. Seeking to leverage my expertise in software engineering and scalable solutions to deliver innovative results in a Software Engineer role.

Education

University of North Texas, Denton

Master of Science in Information Systems and Technologies, GPA: 4.0

Dec. 2024

Texas, USA

Indian Institute of Technology, Ropar

Bachelor of Technology

May. 2020

Punjab, India

Experience

Senior Software Developer

Tata Consultancy Services

Oct. 2020 – Dec. 2022

- Orchestrated the development of a microservices-based headless commerce platform, boosting revenue for US clients FreshThyme, Chobani, and Holiday Meals through streamlined architecture and scalable solutions.
- Designed and developed over 15 RESTful APIs using Spring Boot, MongoDB, and JPA, enhancing data processing efficiency by 25% and ensuring seamless integration for scalable backend services.
- Enhanced user experience by redesigning the UI with ReactJS, NextJS, and Redux, leading to a 20% increase in session duration and a 15% reduction in bounce rates.
- Revamped deployment pipelines using Docker, Kubernetes, Jenkins, and GitLab CI/CD, cutting deployment time by 30% and achieving 96% system uptime for improved operational efficiency.
- Spearheaded the launch of an e-commerce solution with a team of six, increasing client engagement by 40% and boosting sales by 25% through targeted optimizations and robust design.

Software Developer

CodeUnity

Jan. 2020 – Oct. 2020

- Piloted the development of the TS-bPASS Admin Console using ReactJS and React Hooks, integrating GraphQL and RESTful APIs to optimize data flow and reduce data exchange latency by 25%, improving overall system performance.
- Enhanced real-time data processing and UI responsiveness by implementing advanced asynchronous data fetching techniques and caching strategies, resulting in a 20% improvement in load times and a 15% increase in user engagement.
- Architected the backend with Python and Flask, enhancing page load speeds by 30% and scalability through a modular, microservice-based API layer.

Software Developer Intern

Azgaard

May. 2019 – Oct. 2019

- Engineered UI components with ReactJS and SCSS, boosting performance by 30%; Spearheaded KYC functionality and Redux state management, ensuring seamless GraphQL integration for WeInvest's website.

Projects

Chobani and FreshThyme | *Next.js, Material-UI, Spring Boot, MongoDB, RESTful APIs*

- Refined the cart page UI with Next.js and Material-UI, enhancing user interaction by 25% and streamlining product browsing through optimized RESTful APIs built with Spring Boot and MongoDB.

Product Recommendation System | *Python, SQL, TensorFlow, Pandas, scikit-learn*

- Built a product recommendation engine using collaborative filtering, matrix factorization, KNN, and Singular Value Decomposition (SVD) algorithms in TensorFlow and scikit-learn, achieving 90% accuracy.

Data Analysis and Predictive Modeling | *Python, SQL, Pandas, NumPy, scikit-learn, Matplotlib*

- Leveraged Python and scikit-learn to create predictive models, driving a 30% improvement in JD.com's sales strategy efficiency through accurate delivery time forecasts and actionable insights.

Full Stack YouTube Clone | *TypeScript, Next.js, Express.js, Firebase, Google Cloud*

- Developed a video-sharing app with Next.js, Firebase Auth, Cloud Storage, and Cloud Run for transcoding, enabling scalable video upload, playback, and processing.

Technical Skills

Programming Languages: Python, Java, JavaScript, TypeScript, C/C++, HTML/CSS, MySQL

Web Development: ReactJS, Next.js, Node.js, Redux, Spring Boot, FastAPI, Flask, REST APIs, React Native, GraphQL

Databases: MongoDB, PostgreSQL, Snowflake

Cloud Platforms: AWS (Certified Developer Associate), Google Cloud, Kubernetes, Docker, Firebase

Software Development: Microservices, Design Patterns, MVC, CI/CD, Jenkins, JUnit, Test Automation

Development Tools: Git, Jira, Maven, Visual Studio Code, IntelliJ IDEA, PyCharm, Eclipse