Venkata Sai Teja Yerramsetti

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Professional Summary

Innovative AI Full Stack Software Engineer **with 4+ years of experience designing and delivering** production-grade applications **using** React.js, Java Spring Boot, Node.js, and Python**. Skilled in building** scalable, distributed systems **with** Docker, Kubernetes, and AWS**, integrating** RESTful APIs**, and ensuring system health through** debugging, observability, and performance optimization**. Experienced in** data structures, algorithms, and AI/ML model integration**, with added expertise in** Prompt Engineering for LLM-based applications**, applying advanced computing techniques to create intelligent, adaptive solutions. Proven collaborator in** Agile teams**, with a track record of mentoring peers and driving high-impact, secure, and user-centric systems at scale.**

Skills

- **Frontend**: React.js (Hooks, Redux, Router, JSX), Angular (8+), TypeScript, JavaScript (ES6+), HTML5, CSS3, Tailwind CSS, Bootstrap, CSS-in-JS (styled-components), jQuery, accessibility (WCAG standards)
- **Backend**: Java (Spring Boot, Spring Data), Node.js, Express.js, Python (Flask, FastAPI), RESTful API & GraphQL design, AWS Lambda
- **Data Analysis & Visualization: Large-scale systems data analysis**, distributed data pipelines, data visualization with Tableau/Power BI, Python (Pandas, NumPy, Matplotlib), performance analytics for enterprise-scale applications.
- **Databases**: MongoDB, MySQL, PostgreSQL, SQL Server, Oracle, **data modeling & optimization for large-scale systems.**
- **DevOps & Cloud**: Docker, Kubernetes (GKE/EKS), AWS (EC2, S3, Lambda, CloudWatch), CI/CD (Jenkins, GitHub Actions), Observability (Prometheus, Grafana), **system health monitoring, debugging, and performance tuning.**
- **Software Engineering Practices**: Git, GitHub, Bitbucket, Postman, Chrome DevTools, Agile/Scrum, TDD/BDD, unit & integration testing (Jest, React Testing Library, JUnit, Mockito)
- **AI and Prompt Engineering:** Machine Learning (scikit-learn, TensorFlow), LLM integration (OpenAI API, LangChain), **Prompt Engineering for LLMs**, applied NLP, AI model performance monitoring.

Experience

PlaSiV INC   **June 2025 – Present**
AI Software Integration Intern   *Chicago - Remote*
- Design and implement **AI-enabled features** with distributed teams, improving cross-functional delivery.
- Convert product requirements into **scalable, production-ready technical solutions**.
- **Contributed to full-stack development** with **React.js (frontend)**, **Java Spring Boot & Node.js (backend)**, and **microservices architecture**.
- **Integrate and optimize ML models** in applications, enhancing real-world deployment workflows.
- Research and prototype **emerging AI/LLM technologies** for product innovation.
- **Debug and monitor AI model performance**, driving accuracy and efficiency improvements.
- Support **CI/CD pipelines and Kubernetes deployments**, strengthening release velocity and system reliability.

WynFluenz   **Sep 2021 - Jul 2023**
Junior Web Developer   *Hyderabad*
- **Architected responsive UIs in React.js with Redux** for predictable, unidirectional state management, improving user engagement by 10%.
- **Implemented ES6+ JavaScript features and React Router** to deliver seamless client-side navigation across complex full-stack applications.
- **Built mobile-first, cross-browser interfaces** using **Tailwind CSS** and **Bootstrap**, increasing mobile traffic by 25%.
- **Optimized React.js front-end performance** through **code splitting** and **lazy loading**, decreasing initial load time by 15%.
- **Developed RESTful APIs with Java Spring Boot and Spring Data MongoDB**, designing schemas and services to manage customer and transactional data at scale in cloud environments.
- **Improved system reliability** by writing unit tests in **Jest** and **React Testing Library**, maintaining >90% front-end coverage, and performing code reviews to enforce best practices in **testability, debugging, and performance optimization**.

Infinibytes   **Jan 2021 - Aug 2021**
Engineer Trainee   *Hyderabad*
- **Developed modular UI components** in **React.js** and **Angular**, leveraging component-driven architecture for scalable,

reusable front-end solutions.
- **Built and integrated RESTful APIs with Node.js/Express.js** connected to **MySQL and MongoDB**, supporting large-scale data-driven applications.
- **Applied machine learning concepts** by prototyping basic **AI-driven features** (e.g., predictive form validation, recommendation logic) to enhance application functionality.
- **Automated build and deployment pipelines**, improving reliability and reducing manual effort by 40%.
- Collaborated with **Agile, cross-functional teams** to deliver end-to-end features, debug system issues, and ensure smooth releases in distributed environments.

IBM   **Dec 2019 - Dec 2020**
IT Analyst   *Hyderabad*
- **Resolved L1–L3 incidents across Unix/Windows systems**, reducing mean time to resolution by 15% and improving overall **system health and service reliability.**
- **Developed Python automation scripts** to monitor logs, detect anomalies, and trigger alerts, applying **AI-inspired approaches to anomaly detection** for faster issue resolution.
- **Mentored new analysts** on automation tools and best practices, accelerating onboarding by 20% and building a stronger support team.
- Managed and secured 200+ enterprise user accounts, ensuring **data integrity, compliance, and access control**.
- Collaborated in **debugging sessions and system triage**, providing actionable insights from log data and reinforcing high availability standards.

Electronic Corporation of India Limited – Information Technology Division   **Aug 2018 - Aug 2019**
Java Development Intern   *Hyderabad*
- **Developed secure authentication modules in Java** using Servlets, JSP, and Spring MVC to ensure reliable session management and user access control.
- **Designed MySQL schemas** for credentials, session tokens, and audit logs; integrated with Java applications via **JDBC** to support scalable, enterprise-grade operations.
- **Deployed and tested modules on Apache Tomcat**, optimizing performance and reinforcing real-world system reliability.
- Gained hands-on experience with **MVC architecture, OOP principles, Agile practices, and code reviews**, building a foundation for scalable software engineering.

Education

Lewis University, IL   **May 2025**
Master of Science, Computer Science

Geethanjali College of Engineering and Technology   **Dec 2018**
Bachelor of Technology, Computer Science

Projects

Tit-for-tat - MERN Stack Freelancing & Skill Exchange Platform   **Jan 2025 - Present**
- Developed a full-featured freelance marketplace using the MERN stack (MongoDB, Express.js, React.js, Node.js). Implemented a skill exchange system, enabling users to barter services instead of using monetary payments.
- Designed and secured JWT-based user authentication and role-based access for users, clients, and admins.
- Integrated Stripe/PayPal payment gateways and managed transactional workflows via the admin panel.
- Built reusable Redux-based state management and RESTful APIs for efficient data handling and component interaction.
- Led deployment using Docker & AWS EC2, with CI/CD setup via GitHub Actions.
- Collaborated with a cross-functional team following Agile methodology; handled both frontend and backend integration.

Certifications

- **Build Dynamic User Interfaces (UI) for Websites**: Coursera
- **Introduction to Back-End Development**: Coursera (Meta)
- **(Google)**
- **Introduction to Software Engineering**: Coursera (IBM)