

Vinay Reddy Kalluri

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Summary

Java Full Stack Developer with 6.5 years of expertise in designing scalable, secure systems. Skilled in cloud-native architectures, AI integration, and end-to-end development for healthcare and productivity. Driven to solve complex challenges with impactful solutions.

Technical Skills

Programming Languages:	Java, Python, Dart, JavaScript, TypeScript
Frameworks and Libraries:	Spring Boot, Hibernate, Kafka, Mockito, JUnit, Flutter, RxJS
Web Technologies:	HTML, CSS, Angular, Bootstrap, Tailwind CSS
Databases:	MySQL, PostgreSQL, MongoDB, Oracle
Cloud Platforms:	AWS (EC2, S3, RDS, Lambda), Google Cloud Platform (GCP), Firebase
DevOps Tools:	Git, Jenkins, Docker, GitHub Actions, Kubernetes, CI/CD Pipelines
AI and Data Science:	TensorFlow, Keras, Neural Networks, Prompt Engineering, OpenAI APIs
Tools and IDEs:	IntelliJ IDEA, Postman, Figma, JIRA, Visual Studio Code, Eclipse, PyCharm
Soft Skills:	Problem Solving, Team Collaboration, Agile Methodologies, Strategic Planning

Professional Experience

Developer III – Software Engineering

Jan 2024 – Present

UST Global Inc, Atlanta, Georgia, USA · Remote

- Designed and developed the **Sales Compensation Incentive System** for Elevance Health using Spring Boot and MySQL, automating broker workflows and enhancing scalability.
- Optimized backend systems, reducing processing time by **20%** while ensuring compliance with healthcare regulations.
- Conducted regular code reviews and implemented scalable architecture, achieving **99.9% system uptime**.
- Collaborated with stakeholders to align enterprise architecture goals, streamlining cross-team efficiency.

Consultant – Software Engineering

Mar 2023 – Jan 2024

Hays US Corporation, Kansas City, Missouri, USA · Remote

- Transitioned monolithic applications to a **microservices architecture** deployed on AWS, utilizing Spring Boot.
- Developed Kafka-based messaging systems to enable **real-time data synchronization** across distributed services.
- Automated infrastructure provisioning using AWS CloudFormation, reducing deployment time by **50%**.
- Led testing initiatives for distributed systems, ensuring reliability and scalability in high-load environments.

Software Engineer – Niche

Nov 2019 – Dec 2021

Legato Health Technologies, Hyderabad Area, India · On-site

- Built enterprise-level applications using Spring Boot, Hibernate, and RESTful APIs, supporting **millions of daily healthcare transactions**.
- Integrated Kafka for real-time messaging and optimized database performance, enhancing query speeds by **30%**.
- Designed and deployed microservices to replace legacy systems, reducing maintenance costs by **25%**.
- Collaborated with cross-functional teams to deliver scalable, user-friendly solutions.

Programmer Analyst

Sep 2018 – Nov 2019

Cognizant, Hyderabad, India · On-site

- Developed REST APIs and web applications using Spring Boot microservices for Anthem Inc, processing **a million events daily**.
- Utilized Spring MVC and Hibernate to implement a robust persistence layer integrated with Oracle and MongoDB.
- Contributed to Agile workflows, participating in sprint planning, retrospectives, and bug triaging.
- Optimized database queries, significantly reducing system latency by **40%**.

Programmer Analyst Trainee

Sep 2017 – Aug 2018

Cognizant, Hyderabad, India · On-site

- Completed comprehensive training in Full Stack Java Web Development and deployed to the Health Care Business Unit.
- Developed web applications using Spring Boot and REST APIs, ensuring smooth integration with legacy systems.

Key Projects

Sales Compensation Incentive System

UST Global Inc

- Streamlined broker compensation workflows for Elevance Health by developing a robust system using **Spring Boot** and **MySQL**.
- Enhanced scalability and compliance, reducing manual intervention by **40%**.

Drowsiness Detection System

VIT University

- Designed an **AI-powered system** to detect driver fatigue using real-time image streams.
- Published findings in an international journal, recognized for innovation in driver safety technology.

Friends And Lovers – Mobile Game Application

Independent Project

- Developed a cross-platform gaming app using **Flutter** and **Firebase**, featuring interactive games like Truth or Dare and Guess the Movie.
- Integrated **Google AdMob** for monetization while ensuring a seamless user experience.

Keep Motive – Daily Inspirational Quotes App

Independent Project

- Created a motivational app delivering curated quotes with a personalized experience.
- Designed a **Flutter-based frontend** and a **Spring Boot backend** for analytics and recommendations.
- Implemented CI/CD pipelines to streamline development and automate testing for efficient updates and improved reliability.

Couple Nest – Relationship App (In Progress)

Independent Project

- Building an innovative app for couples, focused on enhancing emotional connections through features like **encrypted chat**, **AI-assisted conflict resolution**, and **interactive games**.
- Leveraging **Flutter**, **Spring Boot**, and **PostgreSQL** for seamless scalability and exceptional user experience.

Education

Master of Science in Computer Science

University of Missouri - Kansas City (UMKC), USA

Jan 2022 – May 2023

GPA: 3.9/4.0

Master of Science in Software Engineering

VIT University, India

Jun 2012 – May 2017

GPA: 9.24/10.00 (Gold Medalist, Overall Batch Topper)

Achievements and Awards

- Secured a \$4000 Research Grant:** Conducted Deep Learning analysis on Phasor Measurement Units (PMU), leveraging Neural Graph Embedding and Convolutional Neural Networks to detect anomalies as a Graduate Research Assistant at UMKC.
- Winner of UMKC Hack-A-Roo Hackathon:** Developed an innovative Low-Power Image Generation Tool, demonstrating exceptional problem-solving and creativity.
- Academic Excellence:** Earned multiple Meritorious Awards for outstanding academic performance during the academic year 2016-2017.
- Gold Medalist at VIT University:** Achieved Overall Batch Topper status (Rank 1) and received the Gold Medal for academic distinction during the MS in Software Engineering program.
- Best Project Award at Cognizant:** Recognized for designing and implementing a cutting-edge Mobile App – Drowsiness Detection System in 2017.

Research Experience

Real-time Driver Fatigue or Drowsiness Detection System Using Face Image Stream

Published in: International Journal of Civil Engineering and Technology (IJCIET)

Authors: Kalluri Vinay Reddy, Ilakiyaselvan, N

Year: 2017

Abstract: Developed an innovative real-time system to detect driver fatigue using advanced image processing techniques and facial recognition algorithms. The research focuses on improving road safety by identifying early signs of drowsiness and alerting the driver to prevent accidents.

Published: Volume 8, Issue 11, Pages 793–802

Access Link: https://iaeme.com/Home/article_id/IJCIET_08_11_081