

Kiran Kumar Chinnakkagari

Software Engineer

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SUMMARY

Software Engineer with 4 years of experience building scalable, high-performance web applications, microservices, REST APIs, and cloud-native architectures. Proficient in Java, Spring Boot, React.js, TypeScript, SQL/NoSQL, Docker, Kubernetes, Git, AWS, and CI/CD pipelines. Currently expanding skills in Generative AI to automate workflows and improve application performance.

SKILLS

Programming Languages: Java, JavaScript, TypeScript, Python, C/C++

Backend: Spring Boot, Spring MVC, Microservices, Hibernate, RESTful APIs, Express

Frontend: React.js, Redux, Next.js, Angular

Cloud and DevOps: AWS (Lambda, EC2, S3, DynamoDB), Azure, Docker, Kubernetes, Jenkins, Terraform, CI/CD Pipelines

AI/ML Tools: Generative AI (LLMs), LangChain, Hugging Face, Prompt Engineering, OpenAI API, Vector Databases

Database Systems: MySQL, PostgreSQL, MongoDB, NoSQL, Cassandra

Tools and Methodologies: Git, Jira, JUnit, Maven, Nginx, Postman, Agile/Scrum

EDUCATION

Master's, Computer Science, Sacred Heart University, Fairfield, CT, USA (3.70 GPA)

Jan 2024 – May 2025

Bachelor's, Computer Science, Visvesvaraya Technological University, Karnataka, INDIA (7.79 CGPA) Aug 2016 – Aug 2020

EXPERIENCE

DXC Technology, CT | Nov 2024 – Current | Software Engineer

- Developed and enhanced backend modules using Java, Spring Boot, and Hibernate, improving system stability and reducing recurring production issues by 25% across core workflows.
- Built a high-availability Spring Boot + React application with MySQL, automating manual transaction processes and improving operational efficiency for 5+ internal teams.
- Containerized microservices with Docker and deployed them on Kubernetes, integrating CI/CD through Jenkins to reduce deployment failures by 30% and cut release time by 40%.
- Created Python and OpenAI-powered automation scripts for log analysis and deployment summarization, reducing manual review time by 35–45% and accelerating issue resolution.
- Optimized database performance using Hibernate caching and query tuning, improving API response times by 50%, and supported AWS deployments using Terraform for scalable infrastructure.

Infinite Infolab, India | Aug 2020 – Dec 2023 | Software Engineer

- Developed data-processing pipelines and analytics components using Python (Pandas/NumPy) for a Customer Intelligence Platform, improving data accuracy and delivering more reliable insights to business teams.
 - Contributed to the migration of monolithic legacy applications to cloud-native microservices on AWS EKS while designing and implementing a Python-based Customer Intelligence & Analytics Platform (Pandas/NumPy, Power BI) with AI/ML-driven predictive insights, improving scalability, reducing downtime by 25%, and increasing customer retention by 18%.
 - Built distributed microservices with FastAPI and Node.js backed by MongoDB and Redis, enabling high-volume data ingestion and reducing processing time for downstream analytics by 25–30%.
 - Created interactive dashboards in React.js and implemented REST and GraphQL APIs, helping stakeholders monitor KPIs, forecasting metrics, and customer behavior trends in real time.
 - Automated ETL workflows using Azure Data Factory and GCP pipelines, adding validation and error-handling logic that reduced manual reporting effort by 40%.
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PROJECTS

AI-Powered Document Query – Assistant RAG + LangChain + LLMs

- Built an AI-driven Document Query Assistant using LangChain, FAISS vector store, Hugging Face embeddings & OpenAI GPT models.
- Implemented RAG-based retrieval to answer queries from uploaded PDFs, achieving 85–90% relevance in tests.
- Designed custom prompt templates to reduce hallucinations and optimize responses. Built a simple Streamlit frontend for real-time interaction and document QA.

Sales Forecast Dashboard – MERN

- Designed a full-stack web application built with MERN technologies that use ML algorithms to predict sales for pharmaceutical distribution companies and for users to predict disease based on symptoms.
- Co-authored the research paper "Web-Based Sales Forecasting using Holt-Winters", published on the IJESC website.
- Integrated AI automation using LLM-based scripts for ticket classification and text summarization with OpenAI APIs.

Movie Hunger – ReactJS, PHP/MySQL

- Built a dynamic web application using PHP and MySQL to manage movie data, user sessions, and page-based dynamic rendering.
- Implemented client/server-side validation and modular components that simulated real production-like functionality.

CERTIFICATIONS

Generative AI Mastermind – Outskill

Oct 2025

AWS and React: creating full stack apps – LinkedIn

July 2025

Java: data structures – LinkedIn

July 2025

Microsoft Azure Fundamentals (AZ104) – Microsoft

Jan 2021