Napa Sai Manoj

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Skills

Backend: Java, Spring Boot, Microservices, Rest API, Node.js, GraphQL, Gradle, Maven, JPA, Hibernate, Junit
Fronted: Javascript, React.js, Next.js, MaterialUI, Redux
Database: Postgresql, MongoDB, H2, Redis, S3
AI: GenAI, RAG, LLM, AWS BKB, CoT, Python, LangChain, Pandas, scikit-learn
DevOps & Cloud: Kubernetes, AWS, Azure, Terraform, Docker, Helm, ArgoCD, Jenkins, Git, Gitlab, JIRA
Monitoring: Prometheus, Grafana, Logstash, ElasticSearch, Kibana, CloudWatch

Work Experience

Appian, Chennai   Oct 2022 - Present
Software Engineer II

- Architected and developed the Procure Sight SaaS product from scratch, featuring semantic search, document search, and vendor/past performance summaries powered by GenAI. (current)
- Led a team of 4 on backend in an Agile scrum for Procure Sight with 6 sprints of incremental releases. It achieved $2M in first-quarter revenue and estimated $10M by 2025 end.
- Built a resilient, parallel-processing data ingestion orchestrator (SOLID design) that handles 16 daily jobs, ingesting 20k records and 5k documents, with a real time monitoring dashboard ensuring the data integrity and SOC2 compliance.
- Automating the deployment process with GitLab Pipeline, ArgoCD, Liquibase, and SonarQube reduced deployment time by 75%, from 2hrs to just 30 mins, eliminating manual intervention
- A novel, query-based approach for generating vendor past performance summaries was developed, aggregating data before LLM processing for accurate results. Solution delivers a chatbot experience and reduces setup costs by $10,000.
- Accelerated Appian's multilingual app development by 90%+ with a new translation design object handling versioning, IA, IX, lozenge, compare and deploy
- GenAI, RAG, LLM, OpenAI, AWS BedRock models, Spring Boot, Java, Python, Lambda, Aurora PSQL, S3, BedRock, Secret Manager, CloudWatch, API Gateway, Step Functions, WAF, Grafana, Prometheus, Docker, Kubernetes, Helm, ArgoCD, SAIL, JIRA

Publicis Sapient, Bangalore   Dec 2021 - Sep 2022
Associative Software developer 2

- A Successful POC for a Global Experience Platform (GXP) supporting multiple Stellantis brand websites across APAC, the Middle East, and NA secured a $10M contract for product migration
- Eliminated weeks-long onboarding delays for new markets by integrating Model Compare and Financial Calculator pages with an extensible, no-code solution. Onboarded APAC and Middle East market in 2 days for validating, correcting the data
- AEM, Spring boot Java, React.js, Azure App, Azure DevOps, Maven, Docker, SonarQube, GraphQl, jQuery, Kubernetes, Helm, Jenkins, BitBucket, JIRA, Confluence, nx

Publicis Sapient, Bangalore   Sep 2020 - Nov 2021
Associative Software developer 1

- Developed a utility to streamline data extraction from Product Catalog files (raw txt), and provided interface in AEM to address missing data. It reduced vehicle data generation time from a week to few minutes.
- Boosted website traffic by 80% and sales by 50% within three months by integrating the Jeep APAC Build & Price configurator. Additionally, accelerated Middle East market onboarding to just 2 days by enhancing the configurator capabilities.
- Automated advance booking process by eliminating manual intervention and processing time using PayU payments gateway and CarDekho.
- AEM, Spring boot Java, React.js, Swagger, PHP, MicroServices, Azure App, Azure DevOps, Maven, Docker, Jenkins, BitBucket, JIRA, Confluence

Education

NIT Calicut   July 2016 - July 2020
B.Tech Production Engineering   *CGPA: 7.64/10*

Awards and Certificates

- Got the **Pillar Award** for Innovation(POC's in GenAI) in Q4 2024
- Achieved the **Value Award** for exceptional collaboration in Q2 2024
- IBM Data Science Professional Certificate Specialization
- THE COMPLETE 2020 WEB DEVELOPMENT BOOTCAMP
- Microsoft Azure Fundamentals (AZ-900)
- Developing Solutions for Microsoft Azure (AZ-204)

Hackathon & Learning Projects

- **Navayug News(2024)** Built a RESTFUL API for news articles using spring boot handling authentication, caching, fault tolerance following circuit breaker pattern etc., Also created a basic UI in React.js for reading news articles
- **Covi Buddy App (2022):** Developed a mobile application to connect Samaritans with those in need during the pandemic. Utilized declarative programming (Java) and leveraged Google Firebase for database management. Gained foundational experience in mobile app development and Flutter framework.
- **OTT Movie Search Engine (2022):** Developed a responsive web application for cross-platform movie search. Implemented efficient filtering mechanisms (name, genre, language, OTT platform) using HTML, CSS, and JavaScript. Utilized throttling and debouncing techniques to optimize performance.
- **Teams Recognition Extension (2021):** Enhanced employee recognition within Microsoft Teams by integrating a Spring Boot Java application with a team extension. Gained proficiency in Microsoft Graph API and MongoDB.
- **Electricity Demand Forecasting (2019):** Developed a predictive model for electricity demand using machine learning and time series algorithms. Leveraged diverse data sources (World Bank, Wikipedia) to forecast electricity requirements and inform strategies for transitioning to renewable energy. Utilized Jupyter Notebook and Python libraries (Pandas, NumPy, Scikit-learn) for data analysis and model development.