HARSHAVARDHAN JEMEDAR

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SUMMARY

A Results-driven Software Engineer with experience of 4+ years specializing in web apps, scalable cloud infrastructure, and ML applications. Skilled in optimizing performance and automation, as well as ensuring system reliability.

PROFESSIONAL EXPERIENCE

BRIGHT MIND ENRICHMENT AND SCHOOLING **San Francisco, CA**
***Software Developer Engineer* | Volunteer** September 2024 – Present

- Spearheaded the development of a responsive and dynamic front-end using React, TypeScript, and Next.js, refining UI interactions and accessibility, which boosted user engagement by 30% through seamless navigation and improved usability
- Engineered scalable back-end services with Java, Spring Boot, and GraphQL, optimizing API performance and enabling real-time data retrieval, ensuring users received instant and accurate responses
- Created a personalized course recommendation system using TensorFlow, Scikit-learn, and NLP techniques (spaCy, NLTK) along with RAG retrieval models, leading to a 25% increase in course enrollments through tailored learning paths
- Integrated AWS SageMaker and Nvidia Triton for scalable machine learning inference, cutting recommendation response times by 50% through parallel processing and optimized model serving

INFOSYS LIMITED **Hyderabad, INDIA**
***Senior Systems Engineer* | Client: Verizon** May 2021 - February 2022

- Developed RESTful and SOAP APIs using Java and Spring Boot, integrating with telecom CRM and billing systems, reducing API response times by 35% and ensuring seamless service availability
- Designed event-driven architecture with Kafka and MQ, enabling real-time processing of millions of transactions, reducing dropped calls by 20%, and improving customer experience
- Containerized legacy applications with Docker on Amazon EKS, scaling effortlessly with traffic. Optimized microservices on AWS ECS and Lambda, reducing infrastructure costs by 30% while ensuring high availability
- Optimized SQL queries and NoSQL caching (Redis, DynamoDB) to accelerate customer data retrieval, reducing query execution times by 60% and enhancing response speeds.
- Automated cloud infrastructure provisioning using Terraform and AWS CDK, reducing deployment times from hours to minutes and maintaining environment consistency
- Enhanced system monitoring and security by integrating Prometheus, ELK Stack, OAuth2, and AWS Cognito, ensuring 40% better observability and compliance with telecom security standards

***Systems Engineer* | Client: United Health Group** January 2020 - April 2021

- Developed HIPAA-compliant RESTful APIs in Java, Spring Boot, and Hibernate, enabling secure patient data exchange between hospitals and insurance providers while ensuring compliance with healthcare regulations
- Optimized electronic health record (EHR) systems using PostgreSQL and MongoDB, improving patient data retrieval speeds by 40% through efficient indexing and query optimization
- Implemented cloud-based deployment strategies using AWS services such as EC2 for compute resources, Lambda for serverless functions, API Gateway for managing APIs, RDS for database management, and S3 for scalable storage
- Enhanced security and access management with OAuth2, JWT, and Azure AD, enforcing role-based access control (RBAC) to safeguard sensitive medical records

TECHNICAL SKILLS

- Java, Spring Boot, Microservices, REST API, GraphQL, Hibernate, JPA, Docker, Kubernetes, CI/CD, Maven, Kafka
- JavaScript, TypeScript, Node.js, Express.js, React, Next.js, Angular, MongoDB, MySQL, PostgreSQL,
- AWS (SageMaker, EKS, ECS, Lambda, DynamoDB, S3, API Gateway), Nvidia Triton, TensorFlow, Scikit-learn, NLP

EDUCATION

California State University Fullerton | Master of Science, Computer Science August 2022 – May 2024

- Managed web applications for CSUF services, ensuring functionality, security, and availability for students and faculty. Developed an AI-powered virtual assistant with OpenAI's GPT to enhance user interaction and automate support
- Conducted research on drone simulation by integrating YOLO, ROS, and CUDA with CNN-based object detection models**,** optimizing real-time drone perception and navigation in autonomous systems