

HARSHAVARDHAN JEMEDAR

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PROFESSIONAL SUMMARY

- Over 4 years of professional experience as a Software Developer Engineer, specializing in Full-stack Engineering and cloud environments like AWS and Azure
- Proficient in build automation, deployment, and infrastructure as code (IaC) using Terraform for scalable, efficient solutions
- Specialized in designing and implementing CI/CD pipelines with Jenkins, Docker, and Kubernetes to streamline deployment and improve operational efficiency
- Strong ability to enhance system performance, reduce downtime, and streamline operations using DevOps methodologies
- Adept at collaborating with cross-functional teams in Agile environments to automate development, testing, and deployment workflows
- Committed to improving system security, resilience, and efficiency through continuous integration and infrastructure optimization

WORK EXPERIENCE

BRIGHT MIND ENRICHMENT

SAN FRANCISCO, CA

Software Developer Engineer

August 2024 – Present

- Designed and implemented dynamic and responsive front-end web applications using React.js and TypeScript, enhancing user experience and interactivity
- **Developed backend services** using **Java** and **Spring Boot**, integrating with **RESTful APIs** and **microservices** to ensure smooth data flow between the front-end and server-side components
- **Worked on API integrations**, collaborating with external services and databases to ensure seamless functionality across multiple systems
- **Utilized DevOps practices**, leveraging **CI/CD pipelines** using tools like **Jenkins** and **Docker** to automate deployments and improve application reliability
- **Collaborated with cross-functional teams** in an Agile environment, participating in daily standups, sprint planning, and code reviews to ensure timely delivery and code quality

CALIFORNIA STATE UNIVERSITY FULLERTON

Fullerton, CA

Graduate Teaching Assistant

December 2022 - May 2024

- Facilitated weekly lab sessions to teach Java and Object-Oriented Programming (OOP) concepts, including inheritance, polymorphism, and encapsulation to undergraduate students
- Guided students through complex algorithmic problems, helping them understand and implement efficient solutions using Java
- Integrated real-world Java projects and Spring Boot applications to demonstrate how theoretical concepts apply in industry settings
- Introduced students to DevOps practices, including CI/CD pipelines and unit testing, to provide practical insights into modern software development workflows
- Provided one-on-one support to students, helping them debug code and enhance their problem-solving skills in Java

INFOSYS LIMITED

Hyderabad, INDIA

Systems Engineer

January 2020 - February 2022

- Integrated services into Client's applications using Java, Spring Boot, WebLogic, AWS, and Microservices. Employed DevOps tools like Jenkins and Kubernetes for CI/CD
- Addressed severe bugs across 10 applications with Agile and TDD (Test-driven Development), achieving an 80% burndown chart rate and reducing downtime
- Design, deploy, and maintain scalable application servers on AWS infrastructure using EC2, EKS, and ECS, ensuring high availability, performance, and cost-efficiency
- Automated functions across 20 applications using Python, Ansible, Terraform, and AWS, cutting manual workload by 30%
- Implemented an IaC approach with Terraform and CloudFormation templates, which ensured that AWS and Azure resources are provisioned in a controlled manner
- Enhanced site loading speed 2X using JavaScript, React, and CDN, boosting user engagement by 30%
- Mentored 5 junior team members in Java, Spring Boot, WebLogic, AWS, and DevOps practices
- Streamlined ETL pipelines using Spring Boot, Kafka, MQ, Kubernetes, and AWS, reducing processing time by 50%
- Maintained version control repositories in Git, GitHub, and Bitbucket responsible for branching strategies and code review practices implementation and enforcement

- Configured monitoring and alerting system with Prometheus and ELK Stack, which helped quickly react to system anomalies and performance issues
- Optimized database queries and indexing strategies in MySQL and OracleDB, reducing query execution time by 40% and improving overall application performance
- Developed and maintained real-time messaging systems using Kafka and RabbitMQ integrated with Spring Boot, ensuring reliable data transmission and enhancing system communication efficiency
- Developed a RESTful API using Java Spring Boot, MySQL, Hibernate, and AWS for microservices deployment
- Implemented OAuth2 with Spring Security and design patterns, deploying on spring authorization servers and Kubernetes with AWS
- Containerized applications via Docker and managed them with Kubernetes, which provided vertical and horizontal scaling as well as high availability

TECHNICAL SKILLS

- **Programming languages:** Java, Python, C++, Swift
- **Frontend:** React, Angular, HTML, CSS, TypeScript
- **Backend Frameworks and Tools:** Spring Boot, Node.js, RESTful API
- **Database:** MySQL, PostgreSQL, MongoDB, Cassandra, Hadoop
- **Cloud technologies:** AWS (S3, DynamoDB), Azure, Kafka, AWS Lambda, CI/CD, Terraform
- **Software Development Process:** SDLC (Software Development Life Cycle), Agile, DevOps, Jira, Git, Jenkins
- **Containerization:** Docker, Kubernetes
- **Scripting Languages:** Bash, Powershell, Python
- **Monitoring Tools:** Prometheus, Grafana, ELK Stack (Elasticsearch, Logstash, Kibana)
- **Version Control:** Git, GitHub, Bitbucket
- **Operating Systems:** Linux, Windows

COURSE PROJECTS

- **Autonomous multi-node drone network** [\[Project Link\]](#)
Enhanced autonomous flight using LiDAR SLAM and YOLO integration. Leveraged ROS, Python libraries, CUDA, and Nvidia docker and utilized C++ for sensor plugins and configuration. Improved collision avoidance and efficiency by 25%, allowing for precise multi-drone operations and robust object tracking in simulated environments.
- **Good Teacher-Bad Teacher** [\[Project Link\]](#)
Developed a sentiment analysis model using Python, RNNs, deep learning, and NLP techniques, including NLTK and spaCy, to analyze professors' reviews. Achieved a 90% classification accuracy, analyzing over 150000 reviews, and improved evaluation accuracy by 20%.
- **Music Recommendation System** [\[Project Link\]](#)
Developed a robust music recommendation system operating Python, ML Algorithms, TensorFlow, and Keras. Increased user engagement by 40% through personalized playlist recommendations, resulting in a 20% rise in user retention. Processed over 10,000 user histories to train recommendation model, attaining a recommendation accuracy improvement of 25%.
- **Text Recognition** [\[Project Link\]](#)
Developed an advanced text recognition model leveraging Python, CNNs, LSTMs, Keras, and TensorFlow, achieving a 93% accuracy in human handwriting recognition across more than 1,000 documents. Implementing GPU acceleration cut processing time by 30%, enabling real-time recognition. Deploying this model in production boosted document digitization efficiency by 50%.

EDUCATION

California State University Fullerton
Master of Science, Computer Science
GPA: 3.7/4.0

Fullerton, CA
August 2022 – May 2024

KL University
Bachelor of Technology, Electronics and Communication Engineering
GPA: 8.0/10

Vijayawada, INDIA
July 2015 – December 2019