

HARSHAVARDHAN JEMEDAR

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PROFESSIONAL SUMMARY

A **Software Developer Engineer** with over **4 years of experience** specializing in **full-stack engineering**, leveraging **AWS** and **DevOps** tools. Skilled in **build automation**, **deployment**, and **Infrastructure as Code (IaC)** using **Terraform** to create scalable solutions. Proficient in designing and implementing **CI/CD pipelines** using **Jenkins**, **Docker**, and **Kubernetes** to enhance operational efficiency. Adept at improving **system performance** and reliability, reducing **downtime**, and streamlining workflows in **Agile environments**. Focused on optimizing **system security**, resilience, and **continuous integration**.

EMPLOYMENT HISTORY

INFOSYS LIMITED

Hyderabad, INDIA

Systems Engineer

January 2020 - February 2022

- Developed and maintained scalable **RESTful APIs** using **Java Spring Boot**, **MySQL**, **Hibernate**, and **AWS**, supporting microservices deployment and **real-time integration**
- Designed and deployed scalable application servers on **AWS infrastructure** using **EC2**, **EKS**, and **ECS**, ensuring high availability, performance, and cost-efficiency
- Implemented **Infrastructure as Code (IaC)** using **Terraform** and **CloudFormation**, ensuring controlled provisioning of **AWS** and **Azure** resources
- Streamlined **ETL pipelines** using **Spring Boot**, **Kafka**, **MQ**, **Kubernetes**, and **AWS**, reducing processing time by 50% and enhancing real-time data processing
- Automated functions across 20 applications** using **Python**, **Ansible**, **Terraform**, and **AWS**, cutting manual workload by 30% and improving efficiency
- Configured **monitoring and alerting systems** with **Prometheus** and **ELK Stack**, enabling quicker reactions to system anomalies and improving overall system reliability
- Containerized applications via Docker** and managed them with **Kubernetes**, ensuring vertical and horizontal scaling as well as high availability of microservices
- Enhanced site loading speed by 2X using **JavaScript**, **React**, and **CDN**, boosting user engagement by 30%
- Addressed critical bugs in over 10 applications in an **Agile** and **Test-Driven Development (TDD)** environment, achieving an 80% sprint burndown rate and reducing downtime
- Mentored** junior team members in **Java**, **Spring Boot**, **WebLogic**, **AWS**, and **DevOps practices**, fostering team growth and improving productivity

INFOSYS LIMITED

Hyderabad, INDIA

Software Engineer Intern

December 2018 - May 2019

- Trained to Develop **Enterprise web applications** using **MEAN** and **MERN stacks** that helped me gain knowledge in front-end skills like **React**, **Angular**, **JavaScript** and in back-end development with **Java**, **Spring framework**
- Deployed and managed applications on **AWS** and **Azure** platforms, optimizing performance and scalability
- Monitored backend servers with **Prometheus**, and **Grafana**, and handled **bug fixing** using **Splunk** and **ELK Stack**
- Utilized **Git**, **Jenkins** for version control and **CI/CD pipelines**, streamlining development workflows

VOLUNTEER EXPERIENCE

BRIGHT MIND ENRICHMENT AND SCHOOLING - VOLUNTEER

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 **back-end** 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

ACADEMIC EXPERIENCE

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 to 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

TECHNICAL SKILLS

- **Programming languages:** Java, Python, Go, C++
- **Frontend:** React, Angular, HTML, CSS, TypeScript, JavaScript
- **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, AWS CDK
- **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

PROJECTS

Titan Payment System – [View Project](#)

Engineered and deployed a robust financial transaction system operating Java, Spring Boot as Back-end, React.js, Node.js as Front-end, and MongoDB, Implemented advanced account management functionalities, resulting in a 30% reduction in payment processing time

CloudWeatherOps – [View Project](#)

Developed and deployed a scalable weather forecasting app using Java Spring Boot. Implemented Docker containerization, Kubernetes orchestration, and AWS EKS with advanced IAM policies. Automated CI/CD pipelines with GitHub Actions and ArgoCD. Configured Helm charts and optimized Ingress for load balancing and DNS, ensuring secure and efficient cloud deployment

Music Recommendation System – [View Project](#)

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 70,000 user histories to train recommendation model, attaining a recommendation accuracy improvement of 25%.

Text Recognition – [View Project](#)

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