CHANDU PULAPAKA

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Professional Summary

Boasting over 3.5 years of experience in system architecture and full-stack development, this committed software developer specializes in cloud migration. Adept at using the Spring Framework's architectural patterns and coding languages to create microservices. knowledgeable about Agile processes and management systems, using advances with CI/CD using Docker, Kubernetes, and Jenkins, as well as test automation and runtime analysis. adept at creating guidelines and protocols to improve system functionality.

Technologies

Methodologies	SDLC, Agile Development, Waterfall Methodologies, Scrum
Programming Languages	Java, Python, JavaScript, C#, C++
Frameworks	Spring (MVC, Boot, Security), Microservices, Node.js, React.js, AngularJS
J2EE Technologies	JDBC, Servlets, JSP, JSTL, JavaBeans
Web Technologies	HTML5, CSS3, HTML, TypeScript, Bootstrap, jQuery, Ajax, JSON, XML
APIs	RESTful APIs, GraphQL, SOAP
Cloud Platforms	AWS, Azure, GCP, CloudFront, Azure SQL, Google Cloud
Databases	MySQL, NoSQL, SQL Server, DynamoDB, MongoDB
Monitoring & Analytics Tools	Dynatrace, Splunk, Grafana, Prometheus, Kibana
Testing Tools	JUnit, Postman
Software Development Expertise	Web Application Development, Software Development Methodologies, System Design, Systems Design, Web Frameworks
Operating Systems	Linux, Windows

Professional Experience

Software Developer CitiusTech *USA*, **01/2024 - Present**

- Redesigned application architecture using microservices with **Java** and **Spring Boot**, enhancing scalability and improving sprint velocity by **33%**.
- Enhanced cloud infrastructure on **AWS (ECS, EC2)** to reduce infrastructure costs by **25%** while optimizing operational support.
- Developed responsive front-end interfaces with jQuery, React.js, HTML, and CSS, increasing user engagement by **45%**.
- Performed load testing and performance tuning on Kubernetes clusters, improving response times by **15%** and increasing environment consistency by **40%**.
- Automated **CI/CD pipelines** using Docker, reducing release cycles by **20%** for faster, consistent deployments.
- Collaborated with cross-functional teams to integrate back-end services with front-end applications, improving user engagement by **45%**.

Software Developer Intex Technologies *India*, **November 2020 - July 2022**

- Built REST APIs for the CAM portal with the Spring Boot Framework, optimizing functionality and accessibility.
- Collaborated with a team of 7 during end-to-end development of a website. Leveraged **Python, Java, Docker**, and serverless framework while ensuring **continuous integration and continuous deployment (CI/CD)** with Jenkins.
- Improved test coverage from **50% to 80%** across microservices, with JUnit and PyTest, enhancing code quality and reliability while minimizing regression risks.
- Achieved a **20%** cost optimization by developing Python-based AWS Lambda functions to identify and remove stray EC2 instances, streamlining resource management and cost efficiency.
- Implementation scalability of microservices by deploying **AWS** components, including **Amazon Lambdas** and **S3**; improved application responsiveness under high loads while maintaining uptime for **99.9%** of service requests.
- Architected scalable databases using **Oracle** and **MongoDB**, enhancing data retrieval speed by **35%** and reducing storage costs by **25%** through effective data compression and indexing.
- Enhanced **user experience (UX)** by optimizing front-end and back-end interactions, leading to a **20%** increase in user engagement.

Jr. Software Engineer Bytes Soft Solution *India*, **February 2020 - October 2020**

- Influenced in Agile, contributing to sprint planning and retrospective meetings to ensure project alignment and timely delivery.
- Established Java-based web applications, achieving a **50%** reduction in load times and a **30%** increase in user retention while ensuring seamless scalability.
- Elevated application stability by integrating automated tests with JUnit, PyTest, and Jest; achieved a **35%** drop in critical errors and a **15%** acceleration in release cycles.
- Accomplished cloud infrastructure and deployment processes with **AWS**, and **Jenkins**, ensuring and solutions.

- Settled APIs using **GraphQL** and **SOAP**, enabling streamlined data querying and integration that improved response time by **30%** and reduced server load by **20%**.

Education

Master of Science	**Auburn University at Montgomery**	Montgomery, USA **August 2022- May 2024**

- Major in Management Information Systems – **GPA - 3.63/4**

  Relevant Course Work: Machine Learning, Leading Innovation, Enterprise Information Systems, Data Systems, Data Mining Methods and Applications, Data Analytics for Comp Advantages, Innovation Strategy, Information Security, Appl Bus and Data Analytics, System Analysis, Design & Implementation

Bachelor of Science	**Vikas College of Engineering & Technology**	Vijayawada, India, **August 2017- July 2021**

- Major in Civil Engineering- **GPA- 3.03/4**

  Relevant Course Work: Computer Programming, Engineering Workshop & IT Workshop, Probability and Statistics, Basic Electrical & Electronics Engineering, Surveying, Mathematics-I, II, III, Engineering Physics, Strength of Materials I & II, Managerial Economics & Financial Analysis, Project / Seminar/ Internship Project

Projects

System Analysis and Design for T-Mobile - Link   **08/2023 – 11/2023**
- Conducted system workflow analysis and created detailed process flow diagrams and data models using Microsoft Visio to streamline operations.
- Proposed system optimizations through data modeling and value chain analysis, leveraging SQL Server for efficient data management.

Smart Water Management System - Link   **01/2024 – 04/2024**
- Designed and implemented an IoT-based smart water grid system using Python and AWS, enabling real-time monitoring and efficient water distribution management.
- Developed system architecture diagrams and conducted data analysis to optimize water grid performance and ensure reliable operation.

Certifications

AWS Certified Cloud Practitioner
Microsoft Certified: Azure Fundamentals
Hands-On Java
Hands-On-SQL
Hands-On Linux
Managing Projects with Microsoft 365
Introduction to Career Skills in Software Development

Extra-Curricular Activities

- **Volunteered** in the **AUM Cultural Festival on April 6, 2024**, and participated in the Parade of Nations, representing my heritage.
- Secured **1st position** in a Quiz Competition conducted on **Engineers' Day on September 15, 20** at Vikas College of Engineering & Technology.