

Chedvihas Punnam

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EDUCATION

M.S. Computer Software Engineering (CGPA: **4.0/4.0**)

Arizona State University

08/2022 - 05/2024

Tempe, Arizona

B.Tech Computer Science Engineering (CGPA: **7.0/10.0**)

IIT Bhilai

07/2017 - 05/2021

Bhilai, India

TECHNICAL SKILLS

Programming Languages: Java, Python, SQL, Bash, C, C#, C++.

Web Development: React JS, HTML, CSS, Bootstrap, JavaScript, AJAX, jQuery, JSON.

Databases: Oracle, MS SQL Server, MongoDB.

Tools and Processes: Linux, Maven, Jenkin, AWS (EC2, S3, Redshift, EMR), ServiceNow (ITSM), Git, JIRA, Agile, Scrum.

PROFESSIONAL EXPERIENCE

Larsen & Toubro Infotech, India: Senior Software Engineer

07/2021 - 04/2022

- Planning, analysis, design and implementation of different modules using Agile Methodology.
- Implemented Spring framework with modules such as Spring Boot, Spring-AOP, Spring-ORM, Spring-JPA, Spring-Data, Spring-Security, resulting in reduced code complexity by 30% and improved performance by 25%.
- Implemented Micro Service Architecture with Spring Boot based RESTful services, resulting in a 40% reduction in response time.
- Worked with Java SDK in AWS environment, achieving an average cost reduction of 15%.
- Used React JS components, Forms, Events, Keys, Router, Animations, and Flux concept, resulting in a 20% reduction in page load time.
- Used React-Router to turn the application into a Single Page Application, improving user navigation experience with 50% fewer page reloads.
- Customized Restful web service using spring restful API, sending JSON format data packets between front end and middle tier controller, resulting in a 40% reduction in payload size through optimized JSON formatting.
- Used REST Client and POSTMAN to test the rest-based services and used JUnit and Mockito to test the middleware services, increasing software reliability by 20% through extensive testing.
- Responsible for Continuous Integration (CI) and Continuous Delivery (CD) process implementation using Jenkins along with UNIX Shell scripts to automate routine jobs, resulting in 40% faster and error-free software delivery.

PROJECTS

Survey Application

Full Stack Development (Java, Spring Boot, MySQL, AWS)

08/2022 – 11/2022

- Developed a custom survey application using Angular for the frontend and Java Spring Boot for the backend.
- Enabled administrators to download survey responses in csv format for data analysis.
- Utilized MySQL database hosted on AWS RDS for data storage and retrieval.

Expense Tracker

Full Stack Development (MongoDB, Express.js, React.js, Node.js)

06/2020 – 08/2020

- Designed and developed a cloud-based web application to track personal income and expenses.
- Designed a MongoDB schema to store data and generate insightful reports and graphs on weekly and monthly timelines.
- Automated the process of adding new transactions from transaction alert emails using Gmail APIs, resulting in a 40% increase in transaction tracking accuracy and a 50% reduction in manual data entry.

WebApp for Certificates

Full Stack Development (HTML, CSS, Java Script, PHP, MySQL)

02/2020 – 04/2020

- Developed a Website which automates the tedious process of students applying for Certificates in the academic section manually.
- Students may apply for the certificates needed from the list of available options and fill in the necessary details and receive a notification whenever the certificates are ready.