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BHARATH KUMAR PAKAM

Associate Software Engineer

Portfolio: [bharath1006.github](https://bharath1006.github.io)
Github: github.com/Bharath1006

EDUCATION

University at Albany, State University of New York

Master of Science (M.S) - Computer and Informational Sciences (Cumulative GPA: 3.20/4.00)

Albany, New York, USA

August 2022 – May 2024

KL University

Guntur, India

Bachelor of Technology (B. Tech) - Computer Science and Engineering (Cumulative GPA: 8.29/10.00)

June 2016 – May 2020

TECHNICAL SKILLS

Programming Languages

Java, Python, JavaScript, TypeScript, C/C++, C#, PHP, .NET

Web Technologies

HTML, CSS, React.js, Bootstrap, jQuery, Node JS, AJAX, Spring Boot, Microservices, REST APIs, Spring Security, Spring Data JPA, JWT

Databases

MySQL, Oracle Database, MongoDB

Version Control and CI/CD

GitHub, Bitbucket, SourceTree, Bamboo, GitHub Actions

Server And Build Tools

Apache, Apache Tomcat, Gradle, Maven

Project Management

Agile, Scrum, JIRA, Confluence

Testing And Automation

JUnit, Mockito, Cucumber, Gherkin (BDD), APIs Testing, Postman, Swagger

Cloud And DevOps Tools

Docker, Kubernetes, OpenShift, Ingress Controller, ConfigMaps, AWS S3, AWS SDK v3

WORK EXPERIENCE

Associate Software Engineer

February 2021 – May 2022

Mphasis

Bangalore, India

Client: Charles Schwab

Contributed to the development and testing of a financial trading EMTR (Employer Managed Trade Rules) microservice project

- Designed and implemented scalable backend services that utilized Java, Spring Boot, REST APIs, microservices, and MongoDB.
- Conducted regression and integration testing of RESTful APIs using Postman and Swagger to validate performance and reliability.
- Implemented data storage solutions using MongoDB and configured Apache HTTP Server for hosting backend services.
- Reduced build times by 60% and accelerated deployment frequency by automating CI/CD pipelines with Gradle and Bamboo.
- Designed and executed unit tests using JUnit and BDD test scenarios with Cucumber and Gherkin to improve code quality.
- Utilized JIRA and Confluence in a Scrum Agile environment for sprint planning and documentation, achieving 100% outcomes.
- Collaborated with cross-functional teams and followed version control practices using GitHub, Bitbucket, and Sourcetree.

ACADEMIC PROJECTS

Project: TMR (The Movie Rating) - Enterprise Microservices Platform with Kubernetes Orchestration

Github Link: <https://github.com/Bharath1006/TMR-TheMovieRating.git>

- Led the development and managed a microservices application for enterprises using Spring Boot 3.2.9 and Java 17, featuring an API Gateway and other 2 microservices (Movie and Rating) with RESTful APIs and Spring Data JPA for integration with MySQL.
- Implemented a secure back-end framework using Spring Security with role-based access (Normal Admin, Super Admin), stateless authentication, BCrypt hashing, in-memory user management, circuit breaker integration, and exception handling.
- Built a DevOps cloud deployment pipeline on OpenShift with Docker and Kubernetes, automated CI/CD using GitHub Actions, managed environments with ConfigMaps, set up routing through Ingress controllers, and used Mockito for unit testing.

Project: MERN Full-Stack Restaurant Management System

Github Link: <https://github.com/SE-Snack-club>

- Created a full-stack employee management system utilizing React forms, Node.js APIs, and MongoDB with CRUD operations.
- Implemented a dynamic nutritional search with React 18, Node.js, and MongoDB using regex queries to display calorie data.
- Integrated AWS S3 cloud storage with Node.js back-end for 100+ food item image uploads using AWS SDK v3 and S3 Client.

AWARDS

Recipient of Dean's Merit Scholarship, University at Albany

August 2022 – May 2024