Abhi Achalla

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TECHNICAL SKILLS

Languages: Java, JavaScript, Python, SQL.

Web Technologies: React, Angular, GraphQL, Spring boot, Servlets, Node.js, REST APIs.

Databases: MySQL, SQLite, Cassandra DB, InfluxDB, MongoDB. **DevOps tools:** Docker, Kubernetes, Helm, Ansible, CI/CD (Jenkins).

Other Technologies: AWS(Lambda, S3, EC2, Serverless), Jira,, version control (Git).

PROFESSIONAL EXPERIENCE

Viasat, San Diego, USA

May 2023 - Sep 2023

Software Engineer Intern

- Delivered 6+ distributed microservices in Java using Spring Boot with 60% enhancement in trip management for Viasat mobility; Built the Viasat Maritime portal using ReactJS and JavaScript components managing the state using Redux.
- Ingested live geoSpatial data of 150+ global ships into Cassandra DB leveraging AWS Kinesis data streams.
- Saved 125+ hours of manual efforts using Ansible playbooks by building CI/CD pipelines in Jenkins and automating the updation of flows of 300+ edge sites.
- Migrated 10+ micro-services from on-premise VMs to Docker, improving load speed by 15%.

Quickbase, Boston, USA

Jun 2022 - Dec 2022

Software Developer Coop

- Built scalable microservices in Java using Spring Boot and architected the Frontend of QuickBase reports using Angular
- Improved the system responsiveness by **50%** by coding an event-driven system using Spring Boot Pub-Sub model in Java for microservice interdependencies.
- Hosted build and release CI/CD pipelines in Jenkins and achieved 92% coverage with unit tests in JUnit and component integration tests using Mockito.
- Achieved 40% faster deployment cycle by containerizing Frontend on Docker and deploying with AWS elastic Kubernetes.

Coastal Soil Engineering (COSECS), Vizag India

Sep 2020 - May 2021

Software Developer

- Developed the backend of COSECS in Java using Spring Boot with a micro-service architecture.
- Integrated the application with AWS Lambda serverless to perform auto updates of the AWS S3 buckets.

Academy of Skill Development, India

May 2020 - Sep 2020

Web Application Intern

- Built a highly scalable web application to provide skill services using React at the Frontend and Node.js at the Backend.
- Leveraged AWS elastic Kubernetes and Helm charts for orchestrating the containerized environment and Karpenter for auto-scaling and performed unit testing using Selenium testing library achieving a coverage of 88%.

EDUCATION

Northeastern University, Boston, USA

Sep 2021 - Dec 2023

Master of Science in Computer Science | GPA 3.8

Coursework: Data Structures & Algorithms, Design Patterns, Database Systems, Building Scalable Distributed Systems.

Gayatri Vidya Parishad, Vizag, India

Aug 2017 - Jul 2021

Bachelors in Computer Science | GPA 8.3/10

Coursework: Object-Oriented Programming/Design, Relational Databases (SQL), Cloud Computing, Computing Networking.

ACADEMIC PROJECTS

Interactive Adventure Game

• Devised a game with test driven development (TDD) using Java object-oriented design paradigms. Achieved 98.6% coverage using Junit and refactored code with Facade, Command, Builder, and Singleton design patterns.

Whiteboarding Game - Multithreaded application

- Developed a cross-platform app using C++ to allow collaboration in real-time and draw, chat, or poke.
- Increased main-thread performance by implementing multi-threading and resolved concurrent modification exceptions.

Event-driven Serverless ticketing system

- Implemented an event-driven system using Apache Kafka and Spring Boot Publish-subscribe model in Java for booking tickets.
- Integrated AWS Serverless Lambda functions to update the S3 buckets timely to maintain consistency.

ACHIEVEMENTS

Bright Star 2023 Award - Viasat Inc, San Diego, CA

• Earned the *Bright Star 2023* award for going above and beyond while developing the Viasat Maritime project for a customer - Vancouver Island Ferry Company.