

VISHAL SINGH

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SUMMARY

A proficient full-stack developer with **3+ years** of experience in languages like **Java**, **front-end technologies**, **scripting languages**, and **databases** with expertise in building **REST APIs**, **orchestrating CI/CD pipelines**, and utilizing various frameworks and tools to enable effective development.

EDUCATION

University of Cincinnati, Cincinnati, Ohio, USA

Aug 2022 – Apr 2024

Master of Computer Science

GPA: 3.96/4

Relevant Coursework: Cloud Computing, Database Management, Software Engineering, Automation Testing, Operating System

CVR College of Engineering, Hyderabad, India

Aug 2017 – May 2021

Bachelor of Technology in Computer Science

GPA: 3.8/4

SKILLS

Languages: Java, C, C#, Python, TypeScript, JavaScript, HTML, CSS, XML, SQL, NoSQL

Framework: Spring, Angular, ReactJS, StencilJS, Hibernate

Software Tools: Jenkins, Docker, Kubernetes, Postman, Redux, Kafka, AWS, JUnit, Mockito, Selenium, SonarQube, JIRA

WORK EXPERIENCE

Cloud Waze, Dallas, Texas

Aug 2023 – Oct 2023

Software Engineer

- Developed an analytics dashboard leveraging **Java**, **Angular**, and **RESTful services**, leading to a **30%** enhancement in data visualization.
- Migrated the analytics application to **AWS** using **EC2** and **RDS**, resulting in a **50%** boost in scalability.
- Implemented **JUnit** and **Mockito** for unit testing, ensuring a robust codebase with a **60%** test coverage.

ADP, Hyderabad, India

July 2021 – July 2022

Full Stack Developer

- Designed and migrated **50%** of the company web pages from **AngularJS** to **StencilJS** using **typescript**.
- Developed **Rest APIs** using **JAVA** to improve intersystem communication between **UI** and **MongoDB** by almost **75%**.
- Leveraged **JUnit** for **unit testing** and **Selenium** for **automation testing** to increase test case coverage by **35%**.
- Accelerated deployment by **40%** by developing a **CI/CD pipeline** using **Jenkins** and configured servers using **AWS EC2**.
- Managed source code using **Bitbucket**, improved team collaboration with **Confluence**, and tracked issues daily with **JIRA**, ensuring project consistency and efficiency through **Agile** development practices.

ADP, Hyderabad, India

May 2020 – Feb 2021

Application Developer

- Built web applications using **Angular 8**, **HTML5**, **Bootstrap**, **JAVA**, **Spring**, and **MongoDB** facilitating more than **50k** employees in storing and uploading their tax documents.
- Streamlined **CI/CD pipelines** using **Docker**, reducing build and deployment times by **40%**.
- Participated in core team meetings, **design reviews**, and **requirements sessions** to understand **business needs** and **operational procedures**, aiding in project planning and execution.

Right Data, Hyderabad, India

Aug 2019 – May 2020

Software Developer

- Utilized **ReactJS**, **JAVA**, and **Spring Boot** to establish **10+ microservices**.
- Automated, mapping between **MySQL** databases and **Java** objects with **Hibernate ORM** reducing query writing by **50%**.
- Utilized **Kafka** for asynchronous messaging between microservices, improving system scalability by **30%** and enhancing reliability.
- Managed manual deployments and constructed **CI/CD pipelines**, parallelizing test runs, resulting in an **80%** reduction in overall test run time.

CERTIFICATIONS

- Microsoft** Certified: **Azure** Fundamentals.
- Database Programming with **SQL** by **Oracle**.
- Database Programming with **PL/SQL** by **Oracle**.
- Database Design** by **Oracle**.

ACADEMIC PROJECTS

zKPass Protocol using ZKP

Feb 2024 – Apr 2024

- Engineered a novel authentication method leveraging **zero-knowledge proofs (ZKPs)** to ensure **100%** user privacy and security in **blockchain networks** and used **JavaScript**, **HTML**, **Bootstrap**, **NodeJS**, and **JAVA** to demonstrate the authentication model.

Study Room Reservation System

Sep 2023 – Dec 2023

- Implemented a **75%** more efficient real-time study room reservation application for the University of Cincinnati using **Angular**, **JavaScript**, and **Java** to ensure user interfaces with seamless front-end and back-end integration.

Number Plate Recognition System

- Automated the security systems in the parking lot using the image processing technique **OpenCV** and **Python** libraries to detect the number plates of more than **500+** cars and store the data in the **MySQL** database.
- Created a web page using **.Net**, and **C#** where the **500+** users can manage their accounts and make short-term and long-term payments associated with their vehicles in a parking lot based on the time stamps.

Kisan Vikas (Development of Farmers) – Mobile Application

- Architected a mobile application for farmers to estimate the prices and sell their goods at profitable prices directly into the market using **Android Studio**, **XML** schemas, and learning algorithms.