

Vikas Rai

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, LinkedIn GitHub GeeksForGeeks

Education

- **B.Tech (CSE)**, 2015 - 2019 , BBDNIIT, Lucknow, India

Skills

Languages: C, C++, Java, Kotlin, Python, JavaScript, TypeScript, PL/SQL, HTML, CSS

Databases: Oracle SQL, PostgreSQL, MongoDB, MySQL, DynamoDB

Frameworks: Spring Boot, Angular, Django, Ktor

DevOps: Google Cloud Platform, AWS, Docker, Jenkins, Git, SVN, Shell/Bash Scripting, CI/CD

Projects

Project: Easy-Hire Application Prototype for IIT Bombay's T&P Cell

- Designed and implemented **user authentication and authorization mechanisms** for recruiters and candidates.
- Developed a recruiter portal to upload job descriptions and manage candidate applications, including **file uploads (PDFs) and application tracking**.
- Created candidate portal to view job descriptions and submit applications, including resume uploads.
- Integrated **automated email notifications** for job postings and candidate applications.
- Developed backend **RESTful APIs** to manage job postings, candidate applications, and recruiter workflows.
- **Technologies used:** Django, MySQL, HTML, JavaScript, Bootstrap, Docker, Git, Email Integration (via Django)

Secure Auditing and Cloud De-duplication of Data, Final Year Project

- Implemented De-duplication of data to be uploaded on cloud server to save storage.
- Encryption of data using AES algorithm and hashing for checking Integrity of data using MD5 algorithm.
- **Technologies used:** Java, JSP, MySQL, SQL YOG, Apache Tomcat Server, Eclipse IDE.
- **Design Pattern:** Model View Controller(MVC).

Professional Experience

Software Engineer, Bandhoo

04/2022 - 04/2023, Bengaluru

- Implemented **OAuth 2.0 Authentication** using Google and Microsoft with Spring Security, enhancing user security across the platform, **resulting in a 25% decrease in login-related issues**.
- Restructured **database architecture** by transitioning from email-based agency identification to agency ID, **improving data retrieval efficiency by 30%**.
- Developed and deployed a user-friendly **User Management System**, **reducing user onboarding time by 20%** and increasing system adoption rate.
- Engineered **scalable and testable APIs** for Generic **Approval Flows**, **improving approval processing time by 35%**.
- Designed and developed high-performance **APIs** for the **Real-Time Bidding Reverse Auctioning** feature, **handling up to 1000 concurrent bids with 99% uptime**.
- **Led a team** in designing and developing a **Master Material Facility**, **reducing material procurement errors by 15%** through improved data accuracy.

Software Engineer, TCS-Digital

08/2019 - 03/2022, Kolkata

- Designed and developed queries, stored procedures for **data migration** and **performance tuning** and recognizing mismatch in source and target data.
- Created Materialised views, wrote scripts for automating the Mview Refresh using Mlogs for fast refresh which led to **reduce the query time by 80%**
- Maintained **Git Workflow** for Version Control(SCM), automated **CI/CD Pipelines** for Code Deployment using Jenkins, Python and Shell Scripting **reducing the manual efforts by 85%**.
- Received **On the spot award** for designing DB structure of application.