MIHIR DADWAL

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EDUCATION

Northeastern University, Boston MA – Master's in Computer Science Software Engineering (3.9/4.0)   **Sept 2023-May 2025**
Amity University, Noida, India - Bachelor of Technology in Computer Science & Engineering   **Jul 2018 – May 2022**

SKILLS

Programming Languages: HTML, CSS, Java, Design Patterns, C, C++, C#, Python, SQL, JavaScript (ES6+), TypeScript
Frontend: React.JS, Node.JS, Angular JS, Express.JS, Next.JS, HTML5, D3.JS, Three.JS, Bootstrap, Tailwind CSS, Redux, Axios, WebSockets
Backend: Spring Boot, Spring MVC, Maven, MySQL, NOSQL (MongoDB), Redis, Authentication (JWT, OAuth), Apollo Client, GraphQL
Others: Git, Docker, Postman, Jira, Linux, Android Studio, Network Structure, ElasticSearch, RabbitMQ, Data Structures, Algorithms, OOP, System Design, Operating Systems, AWS (EC2, S3, SNS, SES, CloudWatch), Junit, Kubernetes, CI/CD, Jenkins, RDBMS, PostgreSQL, Kafka

WORK EXPERIENCE

Software Engineer – *Accenture*   **Jul 2022 – Jul 2023**
- Leveraged Java, Spring Boot and Hibernate and React in frontend within MVC framework to architect a scalable micro services based web application, achieving 16% performance increase, with expertise in full stack development.
- Implemented a Customer Discount Code System with secure, token-based REST APIs in Spring Boot for seamless integration between React frontend and MySQL database, contributing to a 10% increase in customer acquisition and engagement.
- Transitioned a legacy on-premise billing system to a Dockerized microservices architecture; utilized Spring Boot, Docker Compose, and Spring Cloud Config, improving system uptime and reducing billing discrepancies by 22%.
- Integrated Apache Kafka into the Order Reporting System for real-time streaming and decoupled communication between services; achieved a 150ms reduction in data latency and enhanced reporting capabilities for over 100+ daily transactions.

Software Engineer – *ClearExam Coaching Institute*   **Apr 2021 – Sept 2021**
- Built responsive Quiz Web Application using React.js, JavaScript (ES6+), and Redux in an Agile environment, boosting student interaction by 30% following modern UI/UX principles.
- Designed and implemented 10+ scalable RESTful APIs using Java, Spring Boot, and Spring MVC for quiz creation, submission handling, scoring logic, and result retrieval for 300+ students.
- Integrated ELK stack (Elasticsearch, Logstash, Kibana) to centralize and visualize application logs, enabling real-time monitoring; this resulted in the identification of root causes for 90% of reported quiz errors.
- Implemented CI/CD pipelines using GitHub Actions to automate testing, build, and deployment of the quiz platform, ensuring faster release cycles and reducing manual deployment errors by 25%.

Software Development Intern – *PhiCommerce*   **Apr 2021 – Jul 2021**
- Developed a Spring Boot utility **alone** for JSON data encryption/decryption with JWT keys, bolstering data security and reducing manual processing time by 2 hours per week for each engineer.
- Designed & built REST API endpoints in Spring Boot for the encryption utility to facilitate data exchange, and testing via Postman, increasing productivity of ongoing projects in the company by 40% to 50%.

PROJECTS

EventShare   **(link) (GitHub)**
- Spearheaded the development of a full stack platform using React.js (TypeScript), Node.js (Express.js), and MongoDB.
- Centralized application state using Redux for consistent data flow across components and reduce redundant API calls by 30%.

Insurance Plan Data Indexing System   **(GitHub)**
- Built a secure Node.js REST API with full CRUD support (merge, cascaded delete, patch), integrating Redis as a key-value store
- Secured API endpoints using OAuth 2.0; Leveraged Elacsticsearch; Implemented RabbitMQ.

Cloud Native User Onboarding Web App   **(GitHub)**
- Evaluated CloudFormation (IaC) to create VPC stack, underlying network, S3, RDS & SNS subscribed to lambda function for Simple Email Service (SES) to send user verification email on Sign up for seamless onboarding experience.
- Implemented a GitHub Actions CI/CD pipeline to trigger testing & build a custom AMI through Packer to be deployed on AWS EC2 instance, reflected on VPC by provisioning Instance Refresh as part of the Auto Scaling Group (ASG).
- Monitored VPC stack using CloudWatch alarms to take automated actions to minimize mean time to resolution (MTTR).

TechUpdates Android App   **(GitHub)**
- Developed a real-time Android app using Java, integrating RSS feeds with async loading to fetch tech news; ensured cross-device compatibility through VM-based testing and debugging; Utilized Android Studio for development.