

# Abhishek Tomar

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## EXPERIENCE

**HCLTech Ltd.** Mar. 2025 – Present  
*Software Engineer* India

- Contributed to the development of a **synthetic data generation platform** supporting enterprise-scale user activity simulation for AI-driven analytics use cases
- Developed backend components using **ASP.NET Core** for generating large-scale time-series datasets
- Implemented **rule-based and probabilistic models** to support realistic behavioral pattern simulation and maintain statistical consistency
- Supported AI analytics demonstrations by enabling simulation of productivity, collaboration, and engagement trends
- Collaborated with clients and cross-functional stakeholders to translate business requirements into scalable backend solutions

**Falcon Autotech Pvt Ltd.** Jul. 2024 – Mar. 2025  
*Automation Engineer* India

- Automated engineering and design workflows using software-driven solutions, improving execution speed and process consistency
- Optimized operational processes by reducing manual intervention and accelerating project delivery timelines
- Developed and enhanced control system logic to improve workflow reliability and minimize operational delays

**Embedded Design Services India Pvt Ltd.** Oct. 2022 – Jul. 2024  
*Software Engineer* India

- Built scalable backend applications using **.NET Core**, supporting enterprise operational requirements
- Optimized backend system performance, improving application responsiveness and throughput
- Designed APIs and modular backend architectures, reducing development and deployment cycle times

## PROJECTS

### AWS Serverless Lead Capture & Data Processing Learning Project

- Built a practical serverless application using **AWS API Gateway, Lambda, S3, DynamoDB, and SES** to understand cloud-native workflows
- Developed Lambda functions to process requests and explore backend automation through **event-driven architecture**
- Integrated API Gateway with Lambda to create REST endpoints for form submissions and backend processing
- Used **DynamoDB** for scalable data storage and retrieval as part of hands-on AWS practice

### AWS Infrastructure & EC2 Deployment Learning Project

- Deployed applications on **AWS EC2** to gain practical experience with cloud hosting and server management
- Configured core **VPC components** including subnets, route tables, Internet Gateway, Security Groups, and NACLs
- Implemented a basic **bastion host** setup for secure access to private instances
- Practiced troubleshooting **SSH connectivity, routing, and network security** issues in AWS environments

## EDUCATION

**J.C. Bose University of Science and Technology** Aug. 2019 – Aug. 2023  
*Bachelor of Technology in Computer Science Engineering* Haryana, India

- Coursework:** Data Structures, Algorithms, Operating Systems, Artificial Intelligence
- CGPA:** 8.0

## SKILLS

**Languages :** C#, JavaScript, TypeScript

**Backend :** ASP.NET Core, Web API, .NET Core, Node.js

**Cloud & DevOps :** AWS (EC2, VPC, IAM, S3, Lambda, DynamoDB, CloudFront, CloudWatch), Azure DevOps, GitHub Actions

**Databases :** MySQL, MongoDB

**Frontend :** React.js

**Core Engineering :** REST APIs, CI/CD Pipelines, System Design Fundamentals, Modular Architecture