

## TUSHAR BHATNAGAR

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### EDUCATION

**B.Tech Computer Science Engineering, The NorthCap University (Formerly ITM University)**

**Gurgaon, India**

CGPA: 8.6 (On a scale of 10)

Jul'14 – Jun'18

### PROFESSIONAL EXPERIENCE

**Lead Engineer, Dunnhumby**

**Gurgaon, Apr'20 - present**

Started as a Junior Engineer and progressed to Senior Engineer, then Lead Engineer, demonstrating consistent growth in responsibilities, technical expertise, and contributions to the organization.

**dhShop**

**Jul'23 – present**

**Technologies used: React, .Net8, React testing library, Xunit, GitlabCI, Kubernetes, Docker, Helm, Terraform, Octopus**

- Spearheaded the strategic planning and execution of a complete migration of reports from Angular JS to React, ensuring seamless transition with minimal disruption to ongoing projects.
- Created Gateway APIs using .Net 8 to handle business logic, keeping the UI scalable and logic free.
- Coordinated with cross-functional teams to define migration requirements, establish timelines, and ensure alignment with business objectives
- Enhanced application performance by leveraging React's efficient rendering processes, resulting in improved user experience and faster load times such as lazy loading and code splitting.
- Designed and implemented end-to-end deployment pipelines for microservices on Kubernetes, ensuring high availability, scalability, and robust monitoring and deploying the service to Azure cloud.
- Utilized tools like Helm and Terraform for infrastructure provisioning and management, enabling consistent and repeatable deployments

**CPG-NPD**

**Jul'22-Jul'23**

**Technologies used: NextJS, .Net8, Argo workflows ,React testing library, Xunit, GitlabCI, Kubernetes, Docker, Helm, Terraform, Octopus**

- Played a key role in setting up the architecture for a new project, ensuring a robust and scalable foundation for future development.
- Led the initiative to become the first team in the organisation to deploy on demand using blue/green deployments, significantly reducing downtime and ensuring smoother, risk-mitigated releases.
- Became the first team in the organisation to have 100% code coverage, thereby reducing the need for manual testing.
- Developed a reusable frontend app in NextJS, which could be configured through helm charts to streamline application deployment and reduce development time. This app is being used company wide now.
- Heavily contributed to organisation's central UI component library to develop and enhance multiple reusable React components.
- Did a PoC on Argo workflows and after successful use case demonstration, implemented and orchestrated multiple Argo Workflows to manage complex data flows, ensuring efficient processing and automation of tasks.
- Designed and developed a data load service that automated the ingestion and processing of CSV files from a GCP bucket, performing necessary computations and loading the data into a PostgreSQL database.
- Created multiple dynamic and visually compelling reports using Highcharts, providing actionable insights and data visualization for stakeholders.

**dhAssortment**

**Apr'20-Jul'22**

**Technologies used: React, Redux, .Net6, React testing library, Xunit, GitlabCI, Kubernetes, Docker, Helm, Terraform, Octopus**

- Developed a public facing web application to let the users order reports based on the products, time period and store clusters so that they can confidently plan product assortments that match the needs of customers.
- Developed multiple UI components using ReactJS and NextJS.
- Developed REST APIs to fetch/modify the data as required by the front end application using .Net Core, .Net 6 and Linq2DB with database as PostgreSQL.
- Helped in development of features like Resubmit, Clone which allow users to edit the already submitted report or copy the contents the original report respectively.
- Automated UI feature tests using Cypress and unit tests using Jest and React testing library.
- Involved in architectural discussions on scaling and adding new features to the application.
- Worked on CI/CD using Gitlab with Octopus.
- Handled multiple environments deployed on GCP and Azure.

**Analyst programmer L1 , Xceedance consulting Pvt. Ltd**

**Gurgaon, Jul'18 – Apr'20**

**B3U (pricing and rating engine for home, motor & landlord insurance)**

**Jul'18-Apr'20**

**Technologies used: .Net framework 4.5, Xunit, Microsoft SQL Server**

- Developed a web service which would act as calculation and serving engine for frontend.
- Implemented rating and pricing rules as suggested by stakeholders so as to present the user with a quote for their insurance.
- Actively solved production issues, BAU tasks and was a key part in deployments to production.

**Broker portal**

**Jun'19 – Apr'20**

**Technologies used: Angular 7, Jasmine**

- Developed a multi-page web application in Angular 7 and integrated it with web services and APIs to display various insurances, their rating and pricing details.
- Wrote unit test cases in Jasmine to increase code coverage and reduce production bugs.

**Underwriter referral Web Application**

**Dec'18 - Mar'19**

**Technologies used: Angular 7, Jasmine**

- Developed a public facing web application to View / Manage available insurances and policies
- Developed an admin panel to manage brokers and customers.
- Developed a dashboard to provide stakeholder an insight of best performing Insurances/Policies, Most active Customers / Brokers and other important business insights.
- Developed services to provide data to front end.

### **Certifications**

- AZ - 900 (Microsoft Azure Fundamentals)
- AZ - 104 (Microsoft Azure Administrator)

### **LANGUAGES**

- Hindi – Native
- English – Fluent