Mehul Garg
Senior Software Engineer

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WORK EXPERIENCE

Tata Consultancy Services, Senior Software Engineer (AI Cloud)　　　　　09/2022 – present | Noida, India
- **IP Asset Development:** Architected solutions and authored technical documentation for **Cloud Content & Information Management (CCIM)** and **Enterprise Search Insights (ESI) on AWS**—subsequently classified as **TCS Intellectual Property (IP) Assets**.
- Delivered **50+** reusable UI components across **7 enterprise-scale** projects, including CCIM, ESI, CARR, MLOps, and AI Cloud Pricing Projects using **React.js, Typescript, Ant Design, and Tailwind CSS**, reducing development time by 40%.
- **Backend & Forecasting:** Engineered 9+ backend calculator modules using **AWS Lambda (NodeJS), API Gateway, and DynamoDB**, enabling real-time pricing workflows and **5-year forecast generations**. This replaced legacy spreadsheets, increasing system reliability by 100% and decision-making speed by 30%.
- Built centralised role-based authentication flows using **AWS Cognito and Amplify**, enhancing security and reducing authentication and authorisation-related defects by 90% across **CCIM, ESI, CARR, and Pricing Projects**.
- Engineered a scalable **GenAI-powered Conversational UI** using **React.js** and **Typescript**, integrating **REST APIs** to interface with **Anthropic LLMs** via **AWS Bedrock**. Optimised **real-time response handling** and implemented complex **asynchronous workflows** to handle file-based queries and render dynamically generated PDF insights within a secure modal.
- Integrated **Amazon Q chatbot** via APIs to enable AI-powered query resolution and optimised file ingestion using **AWS S3 Pre-signed URLs**, reducing manual support volume by **60%** and upload failures by **40%** while ensuring secure, **real-time processing**.

Airtel Digital ⎘, Software Development Engineer- Intern　　　　　09/2021 – 03/2022 | Gurugram, India
- **Collaborated with the Decision Tree Team (Airtel X Labs)** to build reusable components, ensuring consistent design across B2B and B2C portals.
- **Engineered the "Single Service Admin Portal"** using **React.js, Redux, and TypeScript**, a dynamic configuration platform that enabled the Product Team to modify live UI components without code changes.
- **Reduced production deployment time from 14 days to real-time** by architecting a "no-code" solution for static content management, eliminating developer dependency for minor UI updates.
- **Developed a dynamic "Template Schema" engine** that allowed administrators to create and configure nested layouts (Pages > Sections > Groups > Cards) dynamically using **JSON-based configurations**

SKILLS

Programming Languages — C, C++, JavaScript (ES6+), Typescript.

Frameworks & Technologies — HTML, CSS, Bootstrap, ReactJS, Redux, Zustand, Tailwind CSS, Material UI, React Bootstrap, Ant Design, NodeJS, REST API, AWS Services- Lambda, Layers, DynamoDB, S3, API Gateway, Amplify, Cognito, IAM, Cloudwatch, Cloud9, Cloudfront.

Developer Tools — Git & GitHub, Bitbucket, AWS CodeCommit, Postman, Netlify, Webpack, Babel, NPM.

Databases — MySQL, DynamoDB.

PROJECTS

ConnectCloud Blogs ⎘　　　　　　　　　　　　　　　　　　　　　　　　　04/2025
- Developed a full-stack blog platform using **ReactJS**, **AWS Lambda**, **AWS DynamoDB**, **NodeJS** and **S3**, focusing on scalability and seamless user experience. **Improved blog management performance by 40%** using optimised **AWS DynamoDB** query structures.
- Implemented **JWT-based authentication**, leveraging **AWS Lambda Layers** for modular dependencies and enabled secure and reliable image uploads using **AWS S3** and **pre-signed URLs**, ensuring seamless media handling.
- Utilised **Tailwind CSS** for a dynamic frontend and integrated **AWS API Gateway** for RESTful services, integrated Netlify CI/CD pipelines for streamlined deployments and rapid iteration.

Trishul "The Tech-Carnival" ⎘, Software Developer　　　　　　　　　　　12/2019 – 02/2020
- I developed a scalable end-to-end software product for the Technical festival of H.N.B. Garhwal University (A Central University). The portal influenced over **15,000 students** of Garhwal University, over **1,000 students** of **NIT UK**, and students from other regional colleges regarding registration and information accessibility. Used HTML5, CSS3, Bootstrap, JavaScript, and Netlify.

EDUCATION

Hemvati Nandan Bahuguna Garhwal University (A Central University),　　　2018 – 2022 | CGPA: 7.98/10
Bachelor of Technology, Information Technology

L.T.R Public School, 12th (Senior Secondary Examination), CBSE　　　　　　　　2018 | 84%

Meerut Public School, 10th (Secondary Examination), CBSE　　　　　　　　2016 | CGPA: 10/10

CERTIFICATION

AWS Certified Cloud Practitioner ⎘