

Bheemavarapu Balaji

Full Stack Developer

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Professional Summary

Full Stack Developer with 2.5+ years of hands-on experience building scalable, user-focused web apps using the MERN stack. Skilled in designing performant solutions in Agile environments, especially in fintech. Proficient in TypeScript, REST/GraphQL APIs, CI/CD with Azure DevOps, cloud deployment. Known for writing clean, testable code and collaborating cross-functionally to deliver impact.

Technical Skills

Languages: JavaScript, TypeScript, Python, C, Java (Basics)

Frontend: React.js, Redux (Thunk), Tailwind CSS, Bootstrap, Material UI, Context API, SSR

Backend: Node.js, Express.js, RESTful APIs, GraphQL, JWT Authentication

Testing: Jest, Postman, Playwright

DevOps & Tools: Azure DevOps, CI/CD, Git, Docker (basic), SonarQube, Dynatrace, Tealium

Database & Hosting: MongoDB, SQL, Firebase Hosting, Azure

Work Experience

Tata Consultancy Services,

June 2023 – present

Full Stack Developer & Systems Engineer

Client: Lloyds Banking Group, UK

- Automated mortgage product selection in BM Rental Income Calculator using **APIM-integrated microservices**, reducing selection time by **70%** and enhancing product personalization through **Top Slicing** functionality.
- Replaced static PDFs with dynamic, database driven UIs using **parallel processing, batching, and caching** to improve load performance and reduce **95% of manual deployments** in BM & Halifax Product Finder tools.
- Integrated **multi-currency support** into the Halifax Affordability Calculator, enabling loan estimation for users with income in **INR, USD, EUR, CHF, and AUD**, expanding global accessibility.
- Delivered high-performance **Server-Side Rendered** UIs with **Context API**, ensuring **100% Jest test coverage, SonarQube analysis**, and secure **CI/CD** pipelines with Azure DevOps.
- Managed production deployments using **Change Requests, iCAZ, and wellness processes**; implemented observability using **Dynatrace + Winston logger**, and **UI analytics** with **Tealium**.
- Validated backend **APIs** using **Postman/Bruno**, optimized data access to reduce latency and **API costs**.

Inflolabs Private Ltd,

June 2022 – May 2023

Software Engineer Trainee (Intern)

- Developed a responsive, multi-screen **Video-on-Demand (VOD)** platform using React.js, Redux (Thunk), Tailwind CSS, and MUI, ensuring seamless user experience (UX) across devices and screens.
- Integrated **GraphQL APIs** for dynamic content rendering, collaborating with backend teams to implement MongoDB-based **Content Management Features (CMS)** for efficient content management.
- Enabled non-technical users to launch customized **OTT platforms** with a **no-code builder**, simplifying platform personalization with custom branding, logos, and layouts.
- Worked with documentation, Figma, GitLab for version control, Jira for tracking tasks and tickets.

Personal Projects

Automated Programming Evaluation

- Developed a **full-stack coding platform** like HackerRank using the **MERN stack**, enabling real-time code execution for languages like C, C++, and Python.
- Implemented **JWT-based role-based authentication** (Admin, Faculty, Student) with dynamic test case logic and auto-grading, ensuring secure and scalable user access.
- Conducted testing with 60+ students for mock assessments, ensuring a responsive UI with **Tailwind CSS** and **Material UI**, delivering a seamless multi-device experience.
- Integrated **CI/CD pipelines** using **GitHub** and **Redux Thunk** for efficient development, deployment, and automated testing, ensuring streamlined workflows.

Results Management System

- Developed a **role-based web portal** for faculty and students to manage academic results, with dynamic tracking for CGPA, percentage, and backlogs using **React.js** and **Node.js**.
- Enabled **Excel uploads** for bulk result processing, automating student classification by department, batch, and admission type (regular/lateral).
- Implemented **faculty dashboard** features for filtering, result updates, and **Excel export**, while providing students with subject-wise internal and external marks.

Rat in a Maze

- Developed a **visual pathfinding tool** for the Rat in a Maze problem using **React.js**, with real-time visual feedback for each recursive backtracking step.
- Designed a clean, responsive UI using **Tailwind CSS** and **Material UI**, allowing users to customize the maze grid and visualize all valid paths from start to finish.
- Implemented logic for handling blocked paths, visited nodes, and directional movements, making the tool educational and interactive for algorithm learning.

Education

Bachelor of Technology, GMR Institute of Technology

2019 – 2023

Department : Information Technology, **CGPA**: 8.22/10

Certificates

- Microsoft Certified: AZ-900 – Microsoft Azure Fundamentals
- React - The Complete Guide 2023 (incl. React Router & Redux), Udemy
- Node.js, Express, MongoDB & More: The Complete Bootcamp, Udemy
- CI/CD & Azure DevOps Crash Course – Hands-on with Docker, YAML, pipelines, and deployments

Achievements

- Recognized by CIO of LBG with a Certificate of Excellence for mortgage automation.
- Ranked Top 217 among 7,000+ global TCS employees in Top Coders Season 2.
- Secured Global Rank 3604 in TCS CodeVita Season 10.