

Akhilesh Malish

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EDUCATION

George Mason University

Master's in Computer Science

Fairfax, VA

Jan. 2023 – May 2024

GITAM University

Bachelor's in Computer Science

Hyderabad, India

Jun. 2017 – June 2021

EXPERIENCE

Software Engineer

Tata Consultancy Services(TCS)

July 2021 – Sept. 2022

Hyderabad, India

- Developed REST APIs with **Express.js** (Node.js) and **TypeScript**, integrated **PostgreSQL** using **Prisma ORM** for improved data management and query performance by 30%.
- Secured APIs with **JWT** and **OAuth**, implemented data validation using **Zod**, and optimized file uploads with **Multer** in **Node.js**.
- Built frontend with **React.js**, using **Redux** for state management, **React Router DOM** for navigation, and **Tailwind CSS** for responsive UI design.
- Managed scalable infrastructure using **AWS** (EC2, S3, EKS), **Kubernetes**, **Docker** and **Jenkins**.

Software Developer Intern

Phoenix Global

Apr. 2020 – May 2020

Hyderabad, India

- Developed a course registration website with secure payment integration using the **MERN** stack, increasing registrations by 50%.
- Set up email verification and notifications with **NodeMailer**, cutting down manual follow-ups by 75%.
- Created a professor appointment booking system with **React.js**, leading to a 30% increase in bookings.
- Ensured 100% PCI compliance for payment processing and enhanced UI/UX with **React.js** and backend management using **Node.js**, **Express.js**, and **MongoDB**, boosting user engagement by 40%.

PROJECTS

BlogSphere | *React.js, Node.js, Express.js, MongoDB, Mongoose*

Feb. 2023 – May 2023

- Developed a blog site with **ReactJS** for the frontend and **NodeJS** with **ExpressJS** for the backend, using **REST API** for data management.
- Set up **MongoDB** for the database and used **JWT** and **HttpOnly** cookies for secure user authentication.
- Implemented a responsive design with **TailwindCSS** and handled data validation with **Zod**. Managed state with **Redux Toolkit** and preserved state using **Redux Persist**.
- Improved app performance by using code splitting and lazy loading with **React.lazy**, and prevented unnecessary re-renders using **React.memo** and **useMemo**.

AI Audio Transcriber | *Spring Boot (Spring AI, Spring Web), ReactJS, OpenAI API*

May 2024 – May 2024

- Developed a full-stack audio transcription application using **Spring AI** for backend and **ReactJS** for frontend.
- Integrated **OpenAI's** audio model to transcribe audio files into text.
- Implemented file upload functionality and API interaction using **Axios** for smooth communication between frontend and backend.

TECHNICAL SKILLS

Languages: Java, Javascript, Typescript, Python, C/C++, Databases (Postgres, MySQL, MongoDB), HTML/CSS

Frameworks: React, Node.js, Express.js, Jest, Vitest, TailwindCSS, Bootstrap, Shadcn, Springboot, Hibernate, Prisma

Developer Tools: Git, Docker, Jenkins, Kubernetes, AWS, VS Code, IntelliJ

Libraries: Pandas, NumPy, Matplotlib, Seaborn, Redux, Redux-Persist, Zod