

Abhishek Sarangi

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Summary

Experienced Lead Technology Engineer with 4+ years in the Advanced Computing Technology Group at Tata Elxsi Limited. Skilled in software development, system design, and project management. Proven ability to lead and motivate teams to achieve project goals. Strong analytical and problem-solving skills. Excellent communication and interpersonal skills.

Technologies

Languages: JavaScript, Python, CSS3, HTML5, TypeScript, YAML

Front-end Tech: Bootstrap, ReChart.js, Electron.js, Expo, Gatsby, Flutter, jQuery, React Hook, React Native, React, Radix UI, Ionic, React Router, Redux, RxJS, Semantic UI React, TailwindCSS, Three.js, Vite, Vuetify, Vue.js

Back-end Tech: FastAPI, Express.js, JWT, NPM, Nodemon, NodeJS, Next JS, Socket.io, Nginx, Jenkins, MySQL, MongoDB, Redis, PyTorch, scikit-learn, TensorFlow, Scipy, NumPy, Pandas, Elasticsearch, Docker

DevOps/CI-CD: GitLab CI, GitHub Actions, Bitbucket, Git, GitHub, GitLab, Gitpod, ESLint, Jira, TOR, Postman, Notion, Babel

Cloud Computing: AWS, Azure, Cloudflare, Netlify, Heroku, Google Cloud, GithubPages, Firebase

Education

Nitte Meenakshi Institute of Technology , Bachelor of Engineering in Electronics and Communication Engineering	Aug 2015 – July 2019
<ul style="list-style-type: none">Secured CGPA: 8.45 (Percentage Conversion - 77%)	
Kendriya Vidyalaya No-2 Delhi Cantt , Class 12 CBSE Board	Feb 2012 – Mar 2014
<ul style="list-style-type: none">Secured: 81%	
Kendriya Vidyalaya No-2 Delhi Cantt , Class 10 CBSE Board	Feb 2011 – Mar 2012
<ul style="list-style-type: none">Secured: 95%	

Experience

Lead Technology Engineer , TATA ELXSI	Jul 2024 – Present
<ul style="list-style-type: none">Led a team of 15 engineers in developing automotive software solutions.Implemented Agile methodologies, increasing project efficiency by 30%.Integrated Gen AI APIs in the Application Development processCollaborated with cross-functional teams to deliver products on time and within budget.	
Senior Engineer , TATA ELXSI	Jan 2022 – Jul 2024
<ul style="list-style-type: none">Mentored junior engineers, fostering continuous learning and innovation.Conducted code reviews and performance evaluations, ensuring best practices.Managed cloud infrastructure on Azure, reducing operational costs by 20%.	
Engineer , TATA ELXSI	Dec 2019 – Dec 2021
<ul style="list-style-type: none">Designed and implemented software modules for vehicles.Collaborated with clients to gather requirements and deliver customized solutions.	

Publications

Application of Artificial Neural Network and Pattern Recognition Algorithm for Detection of Malaria	Apr 2018
E journal volume issue	

Projects

- 1. MLOps Use Case Lifecycle (CSX)** 2024
 - Designed and integrated a React drag-and-drop interface to streamline the creation of MLOps use cases, enhancing user experience and operational efficiency.
 - Designed software architecture and DevOps processes to ensure the BI system's scalability, reliability, and maintainability.
 - Deployed the entire solution on Azure cloud and the edge machine placed in the railway yard.
- 2. TE-AIGlass IP** 2023
 - Implemented MLOps practices to streamline the development, testing, and deployment of AI/ML models, improving efficiency and scalability.
 - Collaborated with cross-functional teams to integrate MLOps tools and processes, ensuring seamless workflow integration.
 - Conducted performance monitoring and optimization of AI/ML models in production, enhancing model reliability and performance.
- 3. Universal Remote Operating System** 2022
 - Developed and maintained a UI for remote control of heavy machinery using Vue.js, Node.js, socket, and Electron.js.
 - Ensured new features did not break existing ones through simultaneous development and unit testing.
 - Enabled real-time communication between the UI and machinery.
- 4. Tata Elxsi Data Analytics Platform** 2022
 - Developed a platform for data-driven decision-making using AI/ML algorithms.
 - Simplified data migration and processing across various domains with a cloud-agnostic solution.
 - Utilized React.js and Node.js to create a scalable and responsive solution.
- 5. Tata Steel Business Intelligence Platform** 2021
 - Gathered and processed data using AI/ML to identify patterns and improve efficiency.
 - Developed a custom BI tool using React.js, Node.js, MySQL, and Elasticsearch.
 - Visualized data in real-time to optimize processes and improve customer satisfaction.

Certifications

- **AZURE ESSENTIAL TRAINING FOR DEVELOPERS:** By LinkedIn in association with Microsoft
- **DEVOPS FOUNDATIONS:** By LinkedIn
- **Career Essentials in Github Professional Certificate:** By Github
- **GPT-4 Foundations: Building AI-Powered Apps:** By LinkedIn
- **Introduction to Large Language Models:** By LinkedIn

Awards and Recognitions

- Received the Stellar Contribution Award for outstanding work as a full-stack developer on the Tata-Steel Project.
- Earned the Customer Appreciation Award for exceptional work as a full-stack developer on the Caterpillar Project.
- Successfully advanced to the second round of the New Normal Hackathon organized by NEC and Mitsubishi Corporation India in August 2021.
- Won the Bangalore Chamber of Industry and Commerce (BCIC) Innovation Award in 2018.

- Secured first place in the Honeywell India Stack the Next Big Idea Hackathon held in association with HackerEarth.
- Won second prize in the Denso Hackathon conducted by Denso Corporation in association with HackerEarth.

Interests & Hobbies

- Reading Books
- Playing Basketball
- Playing Musical Instruments
- Online PC/Mobile Games