

SANGHARSH KHANDAGALE

Software Engineer || Siemens Employee || BE IT (2019) Graduate || Ex-Infosys Employee

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PROFESSIONAL SUMMARY

Detail-oriented and innovative Software Engineer with **3 years** of experience in full-stack development, CI/CD pipeline implementation, and cloud infrastructure deployments. Proven ability to deliver high-performance applications using **React, Node.js, TypeScript, Electron, and AWS**. Strong foundation in Data Structures, OOPS, Microservices architecture, DevOps, and AI/ML integration using **LangChain, FaissStore**.

TECHNICAL SKILLS

Frontend: JavaScript, TypeScript, Node.js, React.js, Redux, HTML, CSS,

Backend: Node.js, Express.js, Typescript

DevOps & Tools: GitLab CI/CD, Docker, SonarQube, Jest, Postman, GitHub Pages

Cloud & Deployment: AWS (ECS, EC2, ECR, EFS, SSM, etc), Firebase

AI/ML: LangChain, LangGraph, FaissStore, Python

Others: OOPS, Data Structures & Algorithms, Electron, Java (Basics)

PROFESSIONAL EXPERIENCE

Siemens Digital Industries Software — Pune, India

June 2022 – Present

Software Engineer

- ❖ Developed responsive and dynamic UI using React, TypeScript, HTML, and CSS.
- ❖ Built scalable backend with RESTful APIs using Node.js and Express.js.
- ❖ Designed and implemented CI/CD pipelines in GitLab with Docker runners, SonarQube integration, and Jest.
- ❖ Managed application deployments on AWS (ECS, EC2, ECR, EFS, SSM, etc.) ensuring scalability and reliability.
- ❖ Transitioned legacy monolith systems to modern Microservices architecture.
- ❖ Created and published internal libraries and Node packages for code reuse and standardization.
- ❖ Developed an Electron-based desktop application for Windows OS, enhancing offline user experience.

Infosys BPM Limited — Pune, India

Sept 2019 – Nov 2021

Senior Process Executive

Resolved global client issues related to routing, networking, and data operations and handled over 50+ service requests daily with a strong focus on efficiency and documentation. Also Maintained and updated the critical 999 database for the UK.

EDUCATION

Bachelor of Engineering (B.E.) – Information Technology

June 2014 – May 2019

Government College of Engineering, Aurangabad

CGPA: 5.177 / 10

PROJECTS

NX Copilot

- ❖ AI-powered assistant integrated with Siemens NX for real-time guidance, command suggestions and help for CAD/CAM users.
- ❖ Tech Stack: Node.js, Python, TypeScript, React, LangChain, Docker, AWS, GitLab CI/CD, SonarQube, Jest

NX X Essentials (Formerly ZelX) [Demo Link](#)

- ❖ Cloud-native, browser-based application for manufacturing workflows and collaboration on NX files without translation. It Supports predictive AI modeling, simulation, quoting, shop floor management, and AR-based reviews.
- ❖ Tech Stack: React, Node.js, TypeScript, Docker, AWS, GitLab, Microservices, Jest

Manufacturing Viewer

- ❖ Electron-based desktop app for machinists to visualize CAM processes including toolpaths, simulations, and setup data. It Enables part verification before production, improving clarity and precision on the shop floor.
- ❖ Tech Stack: Electron, React, Node.js, TypeScript, AWS, Docker