

SMRATI TIWARI

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SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Python, Golang(Beginner)

Frameworks & Libraries: React.js, Next.js, Redux, React Native, Node.js, Express.js, Django, FastAPI, Flask, Tailwind CSS

Tools / Technologies: AWS (EC2, S3, Lambda), Docker, Kubernetes, Jenkins, GitLab CI/CD, REST APIs, GraphQL, MongoDB, PostgreSQL, MySQL, Redis, Prometheus, Grafana, Git, Figma, Generative AI (LangChain, OpenAI API)

PROFESSIONAL EXPERIENCE

Associate Projects – Full Stack Developer

EY – Ernst & Young (via Cognizant)

Dec 2023 – Present

- Improved application performance by optimizing React UI components and implementing centralized monitoring using Prometheus and Grafana for the EY Canvas platform.
- Increased system reliability by **30%** by improving observability, alerting accuracy, and failure detection using Prometheus metrics and Grafana dashboards.
- Reduced infrastructure costs by **40%** by implementing auto-scaling Docker containers orchestrated with Kubernetes on AWS.
- Enhanced backend throughput by optimizing data processing pipelines and applying compression strategies for high-volume API requests.
- Accelerated deployment reliability by designing CI/CD pipelines using Jenkins and GitLab, enabling automated testing and containerized releases.
- Delivered type-safe frontend features by leveraging TypeScript with React and integrating GraphQL and REST APIs for a global audit platform.

Technologies: TypeScript, React, Redux, Next.js, GraphQL, AWS, Docker, Kubernetes, Prometheus, Grafana

Software Analyst – Full Stack Engineer

PTC Software

Jul 2019 – Nov 2023

- Architected a feature-based monorepo using React and Node.js, enabling consistent code reuse across multiple enterprise single-page applications.
- Improved release stability by **25%** by standardizing CI/CD workflows and enforcing automated build and deployment checks across teams.
- Led version control modernization by migrating from SVN to Git and establishing standardized CI/CD workflows using Jenkins and GitLab.
- Strengthened application security by identifying and mitigating XSS vulnerabilities and enforcing structured code review and linting standards.
- Improved development efficiency by building reusable UI components and backend service templates adopted across multiple teams.

Technologies: React.js, Node.js, Express.js, MongoDB, PostgreSQL, Python, FastAPI, Jenkins, GitLab CI/CD, Git

EDUCATION

Savitribai Phule Pune University	Jul 2017 – Jun 2020
Master of Computer Applications (MCA – Computer Science)	CGPA: 9.2 / 10
<i>Campus Placement: Joined PTC Software in 2019 while completing final semester coursework.</i>	
Relevant Coursework: Computer Architecture, Artificial Intelligence, Data Structures & Algorithms, Database Management Systems, Computational Theory, Software Engineering	

PROJECT WORK

Dev-Match – Full Stack Collaboration Platform	2019
• Built a scalable developer-matching platform using the MERN stack to connect programmers based on skill compatibility.	
• Enhanced user engagement by implementing real-time notifications and personalized dashboards for peer-to-peer collaboration.	
Technologies: MongoDB, Express.js, React, Node.js, JavaScript (ES6+)	
Drishti for Blind People – Accessible Android Launcher	2017
• Developed an open-source Android launcher using Java and Android Accessibility APIs, enabling visually impaired users to navigate smartphones using swipe gestures.	
• Integrated voice guidance supporting multiple Indian languages to improve accessibility and usability for blind users.	
Technologies: Java, Android SDK, Android Accessibility APIs	