Yash Tembhurnikar

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EDUCATION

Purdue University May 2027
Master of Science, *Software Engineering*

Savitribai Phule Pune University Jan 2024
Bachelor of Technology, *Information Technology*

WORK EXPERIENCE

Purdue University – Center for Career Opportunities (CCO) | Full Stack Developer (Graduate Professional Intern) | West Lafayette, IN Aug 2026 - Present

- Fixed production date/time defects that shifted events by one day across event creation, search, calendar invites, and display by replacing hardcoded timezone logic with DST-aware TypeScript utilities; eliminated reported timezone issues after deployment.
- Designed and shipped production email re-delivery workflows with Next.js, TypeScript, Prisma, and PostgreSQL, supporting status-aware recipients, validation, ICS attachments, and guarded administrative re-sends.
- Built GitHub Actions CI with linting, TypeScript validation, Vitest tests, and production builds; configured protected-branch quality gates and deployed and debugged Dockerized workloads using Kubernetes, Harbor, and Rancher.
- Resolved an asynchronous UI race condition in the PPA Letter Writer by coordinating SWR cache revalidation with resend requests, ensuring timestamps and UI state refreshed immediately.

Yansons Engineering Pvt. Ltd. | Freelance Software Developer | Pune, India Jan 2024 - Jul 2025

- Built a company-wide project-performance platform as sole developer using React, Node.js, Express, and MySQL, supporting 20-30 employees across 8 departments and 10+ projects.
- Replaced Excel- and email-based tracking with centralized task assignment, approvals, progress monitoring, and project workflows, tracking 80+ production tasks.
- Designed an MVC backend with 40+ REST APIs and dashboards for project timelines, overdue work, delays, and employee contributions.
- Deployed and maintained the application with React on AWS Amplify, Node.js/Express on EC2, MySQL, and custom domain/DNS configuration.

Werardt Systems Pvt. Ltd. | Data Scientist Intern | Pune, India Jul 2023 - Sep 2023

- Built Python/Pandas preprocessing and recommendation-system experiments for mechanical components and products, comparing collaborative and content-based approaches through validation and evaluation workflows on transactional data.

PROJECTS

Diagrams-AI — AI-Powered Software Diagramming Platform

- Built a full-stack platform that converts natural-language requirements into 14 software and system-design diagram types using Next.js, FastAPI, TypeScript, Python, and OpenAI/Gemini APIs.
- Designed Pydantic-validated structured outputs with graph-integrity checks, React Flow editing, Firebase persistence, IndexedDB autosave, export pipelines, and Docker Compose health checks.

Parkinson's Disease Detection App

- Built an Angular/FastAPI Parkinson's classification app combining CNN-based spiral/wave inference with a 22-feature speech pipeline and 9-model majority-vote ensemble.

SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL

Frontend: React, Next.js, Angular, HTML/CSS, Bootstrap, SWR, React Flow

Backend & Data: Node.js, Express, FastAPI, Prisma, PostgreSQL, MySQL, Firestore

Cloud & Tools: AWS, Docker, Kubernetes, GitHub Actions, Harbor, Rancher, Git

Testing & AI/ML: Vitest, Pydantic, OpenAI/Gemini APIs, TensorFlow/Keras, scikit-learn, XGBoost