

Vighnesh Shinde

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Summary

Full Stack Developer and 2026 graduate with strong foundations in **JavaScript, TypeScript, React.js, Node.js, Express.js, REST APIs, and databases**. Hands-on experience building and deploying full-stack applications with secure API design, authentication, data modeling, and scalable application architecture. Focused on writing clean, maintainable code and applying production-oriented development practices across personal projects.

Skills

Programming: JavaScript, TypeScript, Python, C++, SQL

Frontend: React.js, HTML5, CSS3, Tailwind CSS, TanStack Query

Backend: Node.js, Express.js, FastAPI, RESTful APIs

Databases: MongoDB, MySQL, Redis

DevOps & Tools: Docker, AWS (Deployment Concepts), CI/CD (GitHub Actions), Git

Core Concepts: OOP, Data Structures & Algorithms, Problem Solving, API Design, Data Modeling, Web Security

Projects

CodeCrackr AI – StackOverflow-Inspired DSA Platform

Live

React, Node.js, Express, MongoDB, Redis, Docker

- Built a full-stack DSA platform with modular backend architecture and reusable, component-based frontend architecture.
- Designed and implemented **RESTful APIs** with JWT authentication and role-based access control.
- Applied **database indexing** and Redis cache-aside caching to reduce repeated database reads and improve API response performance.
- Applied lazy loading and code splitting to optimize bundle size and performance.
- Containerized the application using **Docker** and deployed it to a cloud environment for a production-oriented setup.

Resume Copilot AI – Resume Analyzer

GitHub

React, TypeScript, Express.js, FastAPI, Gemini API, Pydantic, MongoDB

- Developed the application using **TypeScript** across the React frontend and Express.js backend for typed, maintainable application code.
- Engineered a modular **prompt-chaining** pipeline for ATS scoring, skill-gap analysis, and roadmap generation to produce more consistent AI outputs.
- Architected a decoupled application with an Express.js service handling authentication, resume uploads, and history, communicating with a dedicated FastAPI AI service through REST APIs.
- Restricted resume uploads to **PDF and DOCX** formats through server-side file-type validation with Multer.

TaskFlow – Backend Workflow Management System (CLI)

GitHub

Node.js, Express, MySQL, Commander.js

- Developed backend REST APIs for project, task and pull request management using raw SQL.
- Implemented **Role-Based Access Control (RBAC)** with strict ownership validation to prevent unauthorized task assignments.
- Designed a structured state workflow for tasks and pull request lifecycle with strictly enforced transitions.
- Applied relational schema design and SQL joins to ensure data consistency and workflow integrity.

Education

Bachelor of Engineering in Artificial Intelligence & Data Science

D. Y. Patil College of Engineering, Pune

Graduation: 2026