

RISHAV RAJ

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SUMMARY

Software engineer who enjoys turning unclear requirements into reliable systems. I work across backend services, full-stack products, AI automation, and data pipelines, with a focus on reducing manual work and keeping systems simple enough to maintain.

WORK EXPERIENCE

Senior Software Development Engineer (SDE-2) | Virohan Pvt. Ltd.

Aug 2023 - Present | Gurgaon, India

- Built an AI feedback engine that classifies and summarizes feedback, routes it to the right owner, and automatically closes 40% of cases, reducing manual triage by 60%.
- Reworked payment processing that was spread across order, confirmation, and recording flows into one service with a single source of truth for payment state.
- Fixed reporting and data-pipeline issues by validating queries and correcting SQL transformations across 2M+ records.
- Built and maintained backend services and APIs using Python, FastAPI, Flask, PostgreSQL, AWS, and Azure.
- Debugged production issues across APIs, databases, queues, and cloud services using logs, request data, and application telemetry.
- Defined practical guidelines for using AI coding tools and agents, covering context management, generated code, and human review.

Junior Web Developer | BotX Automations Pvt. Ltd.

Oct 2021 - Feb 2022 | Kozhikode, India

- Optimized client-facing web applications using React.js and JavaScript, improving frontend performance and cross-team development efficiency.
- Engineered responsive user interfaces with Bootstrap and Styled-components, ensuring a seamless experience across mobile and desktop devices.
- Developed a library of reusable React components, reducing technical debt and accelerating the development lifecycle for future features.
- Led debugging initiatives and code reviews to resolve critical UI/UX bottlenecks, significantly enhancing the application's stability and usability.

PROJECTS

fin-research-agent - AI research assistant over SEC EDGAR filings: hybrid BM25+pgvector retrieval measured with recall@k/MRR, a no-framework tool-using agent with citations and honest refusal, and golden-set evals gating CI. In active development.

YourSpeakReps - Cross-platform AI speaking coach (mock interviews, behavioral practice, spoken-English reps), 100% local: STT-LLM-TTS pipeline over Ollama + faster-whisper + native OS voices. Free and offline.

EDUCATION

Birla Institute of Technology Mesra, Ranchi, Jharkhand, India | 2019 - 2023

Bachelor of Technology in Mechanical Engineering | GPA: 7.62/10

Relevant Coursework: Object-Oriented Programming, Database Management Systems, ML/AI

TECHNICAL PROFICIENCIES

Languages:	Python, JavaScript (ES6+), TypeScript, SQL, PowerShell
Backend:	FastAPI, Flask, REST APIs, PostgreSQL, Flyway, MVC Architecture, Microservices
Frontend:	React.js, Next.js, Vite, TanStack Router, TanStack Query, Zustand
Cloud & DevOps:	AWS (Lambda, ECS, SQS, S3), Azure (App Service, Functions, Static Web Apps, Bicep), OpenTelemetry
Databases:	PostgreSQL, MySQL, DynamoDB, pgvector
AI & Automation:	OpenAI/Codex, Cursor, AI Agents, OCR Pipelines, n8n
Tools:	Git, Bitbucket, Docker, Postman, pytest

ACCOMPLISHMENTS

- Received the Dharmveer Award (High Integrity and Ownership) for demonstrating ownership, delivering high-quality projects, and contributing to the development of scalable and efficient architecture.
- Published blogs on different technical concepts that over 15,000+ people have read.