Akshay Srinivasa Rao Gaekwad

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SUMMARY

Full-stack engineer with 3 years of experience shipping interactive web applications using TypeScript and React in cross-functional agile teams. Built dashboards and data visualizations that turned customer data into actionable insights. Owned CI/CD pipelines with Jenkins and AWS, with a focus on scalability, performance optimization, clean code and secure API design.

EDUCATION

University Of Bath   Bath, UK
M.Sc in Computer Science   *Sep. 2024 – Sep 2025*

Visvesvaraya Technological University   Bengaluru, IN
B.E Aeronautical Engineering

TECHNICAL SKILLS

Languages:TypeScript, JavaScript, Python, Java, SQL, HTML5, CSS.
Frameworks: React, NextJS, Redux,Tailwind, NodeJS, Jest.
Developer Ecosystem: MongoDB, TCP/IP, AWS, Docker, Git, Github Actions, Jenkins, Linux, SQLite, Vercel.
Development Cycle: Agile/scrum, Jira.
AI Tools: Claude, Gemini

EXPERIENCE

Software Engineer   Jun 2022 – Sep 2024
Smart Food Safe Pvt Ltd   *Bengaluru, IN*

- Developed web applications with dashboards, charts and other data visualization components using React, backend services using RESTful APIs for handling PDF generation, audit logging ,automated emails and data validation with Node for multiple user workflows.
- Improved app performance by cutting page load times and API response delays, writing optimized queries that pulled data from multiple collections in the database for analytics and custom reports.
- Worked in a cross-functional Agile environment, collaborating closely with UI/UX designers to translate customer requirements into responsive, accessible interfaces.
- Set up automated background tasks that sent scheduled emails, processed large datasets, and generated PDF reports directly from the database.
- Owned our deployment pipeline using Jenkins and AWS(services like S3, Lambda and EC2), pushed for test-driven development practices with Jest. Contributed to the microservices architecture of infrastructure.
- Mentored team members to debug tricky problems, review code and share knowledge.
- Utilized Agentic tools, agile and security (OWSAP) best practices in development life-cycle and applied secure API design and input validation throughout the life-cycle.

PROJECTS

Portfolio website: akshaysg.com | *NextJs, Typescript, React, tailwind CSS, Github Actions, Vercel*
- Built fullstack portfolio with T3 stack (Next.js, TypeScript, tRPC, Prisma, Tailwind) and deployed on Vercel.
- Deployed using Gitub actions and hosted using Vercel.
- Delivered static-generated pages with edge caching for sub-second loads.
- Architectured modular tRPC routers for future blog CMS and AI integration.

Sudoku Solver | *Python, Git*
- Combines backtracking search with constraint satisfaction using MRV and LCV heuristics plus forward checking to minimize search space.
- Achieves fast solving times (0.9-1.4 seconds) through optimizations like pre-calculating neighbors, domain constraining, and puzzle validation.
- Implements a comprehensive CSP approach that prioritizes most constrained cells first and orders values to minimize neighbor eliminations.