Akshay Srnivasa Rao Gaekwad

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SUMMARY

Full stack engineer with 2 years of experience shipping web applications. Proficient in using Typescript and React, cloud technologies and machine learning models with Python and Pytorch. Passionate about software engineering, with a focus on scalability, performance optimization, and clean code. Interested in learning and contributing in a challenging software engineering role.

EDUCATION

University Of Bath — Bath, UK
Master of Science in Computer Science — *Sep. 2024 – Sep 2025*

Visvesvaraya Technological University — Bengaluru, IN
Bachelor of Engineering and Aeronautical Engineering

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, SQL, HTML5, CSS.
Frameworks: React, NextJS, Tailwind, NodeJS, Jest Testing Framework, Pytorch, Numpy.
Developer Tools: MongoDB, TCP/IP, AWS (EC2, S3), Docker, Git version control, Jenkins (CI/CD), VS Code, NeoVim.
Development Cycle: Agile/scrum, Jira.

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 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, pushed for test-driven development practices with Jest.
- Mentored team members to debug tricky problems, review code and share knowledge.
- Utilized Agentic tools, scrum and agile 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*

- Built fullstack portfolio with T3 stack (Next.js, TypeScript, tRPC, Prisma, Tailwind) and deployed on Vercel.
- Shipped dark/light theme switcher.
- 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.