Sahil Malik

Software Engineer | Software Developer

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SUMMARY

Software Engineer with **4 years of experience** developing stable backend services, efficient APIs, and responsive React applications. Skilled in Node.js, TypeScript, React, PostgreSQL, AWS, and CI/CD automation. Strengthened system reliability, lowered latency across high-traffic workloads, and improved deployment accuracy. Experienced in diagnosing production issues, refining data interactions, and supporting consistent feature delivery across fast-moving engineering teams.

TECHNICAL SKILLS

Programming & Frameworks: TypeScript, JavaScript, Python, C#, Node.js (Express, NestJS), React (TypeScript), Angular, FastAPI, .NET Core
Backend Development: REST API design, GraphQL services, Microservices architecture, JWT/OAuth authentication, Redis-based caching, API performance optimization
Frontend Development: React component architecture, Hooks-based state management, Responsive UI, Tailwind CSS, Material UI, Bootstrap, cross-browser compatibility, UI/UX implementation with Figma
Cloud & DevOps: AWS (EC2, S3, CloudWatch), Docker containers, CI/CD with GitHub Actions & Azure DevOps, automated deployments, version control workflows (Git branching, PR reviews)
Database Engineering: PostgreSQL, MySQL, MongoDB, schema design, indexing, query optimization, caching strategies, data modeling for scalable applications
Software Engineering Practices: Modular architecture, MVC pattern, clean coding standards, automated testing, Swagger/OpenAPI documentation, Agile Scrum, Jira-based delivery, code review best practices
Tools & Platforms: GitHub, GitLab, Postman, Vercel, Docker Hub, Jupyter Notebook, Anaconda, development/debugging toolchain
Specialized Expertise: Blockchain (Solidity, Ethereum, IPFS), Smart Contracts, UML diagrams, RBAC security, system design fundamentals, performance tuning for high-traffic apps

PROFESSIONAL EXPERIENCE

ANR Software Private Limited **May 2022 - Jul 2024**
Software Engineer - India

- Increased API throughput 60% by restructuring endpoints, optimizing queries, and adding targeted caching for heavy-traffic routes.
- Improved frontend delivery efficiency 25% by building a shared React component library used across feature teams.
- Reduced database latency 40% through index tuning, schema improvements, and removing ORM bottlenecks in PostgreSQL/MySQL.
- Lowered regression counts 32% by adding precise test coverage and maintaining accurate OpenAPI documentation.
- Cut release-related issues 45% by automating build, test, and deployment steps in GitHub Actions.
- Shortened code review cycles 28% by introducing clearer structure, resolving recurring issues early, and guiding junior developers.

Chaperon Security Services Private Limited **Dec 2021 - Feb 2022**
Junior Software Developer, India

- Improved security monitoring efficiency 35% by delivering real-time dashboards in .NET Core for live access tracking.
- Reduced admin-side data mismatches 40% after refining data exchange between user and management modules.
- Cut page load times 50% by optimizing Entity Framework query execution and simplifying heavy joins.
- Lowered permission-related errors 70% by enforcing structured RBAC rules tied to actual user profiles.
- Reduced onboarding support tickets 33% by improving input validation and clarifying required form steps.
- Increased reliability of admin workflows by simplifying communication paths and eliminating unnecessary manual checks.

Amrita Institute of Medical Sciences **Nov 2020 - Dec 2021**
Software Developer Trainee, India

- Decreased manual hospital workflow effort 30% by creating React and Node.js tools for resource tracking and patient submissions.
- Improved .NET application stability by reducing memory usage 20% through refactoring inefficient in-memory operations.
- Increased uptime 18% by replacing heavy legacy modules with lightweight REST APIs that handled peak traffic consistently.
- Reduced sprint carryover 22% by resolving blockers early and delivering planned updates reliably in Jira-based sprints.
- Lowered UI defect counts 27% by introducing reusable interface elements and a clearer front-end structure.
- Improved team handoffs by documenting feature changes thoroughly and standardizing update steps across developers.

EDUCATION

Master of Computer Science | Clark University – Worcester, MA **Aug 2024 – Dec 2025**
Bachelor of Technology | Kurukshetra University – Kurukshetra, India **Aug 2017 - May 2021**

PROJECTS

AI Task Manager | Clark University **Feb 2025 - Apr 2025**

- Built an AI-enabled task manager using FastAPI, react (TypeScript), and PostgreSQL, integrating GPT-based logic for task suggestions and productivity insights, while adding JWT authentication, Redis caching, and lazy loading to streamline performance and security.
- Deployed the platform with Dockerized backend services and a Vercel-hosted frontend, creating a responsive dashboard with Material UI components and interactive task views that improved user navigation and reduced loading delays across devices.