MUHAMMAD SADIQ P S

Software Engineer | Frontend & Agentic AI Development

muhammadsadiqps@gmail.com | muhammadsadiqps.com | github.com/MuhammadSadiqps
Trivandrum, India

PROFESSIONAL SUMMARY

Software Engineer with 5 years of experience building scalable frontend applications using React.js, Next.js, and TypeScript, developing Agentic AI systems for software development and HR workflow automation, and researching/implementing security tooling for CI/CD pipelines. Designed and built multi-agent systems using Claude, with hands-on experience in GitHub MCP integration, AI-assisted development, and independent R&D recognized by client and leadership. Strong in front-end architecture, agent orchestration, and cross-functional collaboration in Agile teams.

SKILLS

Frontend: React.js, Next.js, Redux, JavaScript (ES6+), TypeScript, HTML5, CSS3, Tailwind CSS, jQuery

Agentic AI / GenAI: LLM-Based Agent Development, Multi-Agent Systems, Agent Orchestration, Prompt Engineering, Model Fine-Tuning, Workflow Automation, Claude (Anthropic), GitHub MCP (Model Context Protocol)

Security & DevOps: Software Composition Analysis (FossID), SBOM & License Compliance, Vulnerability Scanning, CI/CD Security Integration, Docker

Backend & APIs: Python, SQL, REST APIs, WebSockets

Cloud & CI/CD: Azure DevOps Pipelines, Azure VMs, GitHub Actions, Jenkins, CI/CD Pipelines

Tools: Git, GitHub, GitHub Copilot, SVN

Project Management: Jira, Trello, Azure DevOps Boards, Agile (Scrum, Kanban)

AGENTIC AI PROJECTS

Multi-Agent SDLC Automation (Trenser Technology Solutions — Internal R&D Initiative)

- Designed and built a proof-of-concept multi-agent system automating the software development lifecycle, with dedicated, role-specific agents for user story generation, task assignment, development, PR creation, code review, testing, unit testing, coding standards verification, and deployment — validated across multiple experimental projects and sample user stories.
- Built using Claude (Anthropic) for agent reasoning and GitHub MCP for direct repository integration, with GitHub Copilot supporting development; distributing work across specialized agents rather than a single monolithic agent optimized AI token usage and cost efficiency.

HR Recruitment Automation (Hackathon Project — Trenser Technology Solutions)

- Built a multi-agent system powered by Claude, automating the full HR recruitment lifecycle — from resume intake to employee onboarding.
- Earned special mention at the hackathon for the system's agentic design and approach.

WORK EXPERIENCE

Software Engineer September 2022 – Present

Trenser Technology Solutions (P) Ltd.

- Independently researched and implemented FossID, a Software Composition Analysis (SCA) tool, evaluating its architecture and features and designing an implementation strategy for organization-wide rollout across live client projects, under the guidance of a team lead — work recognized with appreciation from both the client and Trenser leadership.
- Deployed a self-hosted FossID instance and integrated automated open-source license and vulnerability scanning into CI/CD pipelines across Azure DevOps and GitHub Actions.
- Designed a dual-scan strategy — a fast, PR-blocking scan (2–3 min) for immediate detection alongside a deeper compliance/audit scan for release and legal review — enabling continuous security scanning without slowing development velocity.
- Documented setup, scan workflows, and SBOM/compliance reporting to support adoption across client projects.

- Developed and deployed scalable web applications using React.js, Next.js, and TypeScript, improving user engagement by 25%.
- Built reusable front-end components, increasing development speed by 40%.
- Optimized performance with code splitting and lazy loading, reducing page load time by 30%.
- Mentored junior developers and improved team coding standards, resulting in fewer defects.

Software Engineer Trainee September 2021 – September 2022

Trenser Technology Solutions (P) Ltd.

- Gained proficiency in React.js, React Native, JavaScript, and TypeScript within six months, contributing to web and mobile development projects.
- Assisted in implementing key front-end features with full cross-browser compatibility.
- Collaborated with senior engineers to debug and enhance application features, improving performance and maintainability.
- Actively participated in Agile workflows, including sprint planning, daily standups, and retrospectives, boosting productivity.

PROJECTS

Self-Service Data Subscription Platform (React.js, Next.js, REST APIs)

- Designed platform for medical AI developers to access high-quality medical images.
- Migrated from React.js to Next.js, improving performance and scalability.
- Integrated APIs for faster and more efficient data retrieval.

Recycling Operations Manager (React Native, WebSockets, REST APIs)

- Built mobile app for recycling operations with real-time tracking, improving logistics efficiency by 20%.
- Enhanced transparency through bin tracking and inventory management.

IP Camera Project (React.js, WebSockets, RTSP)

- Implemented live streaming capabilities with WebSocket connections and RTSP.
- Migrated the app from jQuery to React.js, enhancing scalability and maintainability.

EDUCATION

Bachelor of Computer Applications (BCA) — Indira Gandhi National Open University (IGNOU) | In Progress
Diploma in Computer Engineering — Sree Rama Government Polytechnic College, Triprayar | 2021
Higher Secondary — National Institute of Open Schooling (NIOS) | 2021
High School — Govt HSS Puthiyakavu | 2018