

SUSHRUTH RAO MURAKARE

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TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, Python. **Databases:** PostgreSQL, MySQL, NoSQL: MongoDB.
Frontend: React.js, Next.js, Angular, React Native, Redux, Tanstack, Tailwind CSS, Material UI, HTML5, CSS3.
Backend: Node.js, Express.js, GraphQL, FastAPI, Flask, Websocket, Socket.IO.
Cloud/ Infra: AWS (EC2, Target group, Security groups, Load balancers, Route 53), Docker, Datadog, Kubernetes.
AL Tools: Claude code, Codex, GitHub copilot, Cursor.

CERTIFICATIONS: AWS Cloud Practitioner, Claude Code 101, Responsive web design (freeCodeCamp), Practical web design & development (Udemy), HTML & CSS Certificate (Udemy), Intro to GenAI (Google cloud)

PROJECTS: Geospatial Data Extraction, AI-Powered Web Automation, RAG Professional Assistant.

EXPERIENCE

Software Engineer Intern, Zinnia, Boulder, Colorado (Full time) May 2025 – Aug 2025

- Built and maintained insurance analytics dashboards tracking **user segmentation** data for clients including **Farmer's Insurance**, reducing load latency by ~20% through **optimized** state management.
- Integrated** generative **AI (GPT-4)** into a production platform to summarize complex tables and chart data; **leveraged AI coding** assistants to accelerate development, improve code quality, and explore creative solutions.
- Collaborated** with 5+ cross-functional stakeholders including product, design, QA, and backend engineering, partnering closely with **UX** and Product teams to deliver intuitive customer experiences.
- Led** a team of 10 interns as **Scrum Master**, tracking project progress in **Jira**, facilitating roadmap discussions, breaking down 20+ requirements into Jira tickets, and ensuring **100%** sprint completion across **4 Agile** iterations.

Mobile App Developer, NutriverseAI (startup), Boulder, Colorado (Part time) May 2025 – Aug 2025

- Owned end-to-end development of a **React Native nutrition app**, integrating AI-driven personalization and **social media** audio extraction using **yt_dlp**, processing **100+** audio clips into structured recipe entries.
- Built and optimized **6+** backend APIs using **Node.js** and **FastAPI**, integrating third-party and internal REST APIs, and designing efficient **relational database queries** to support scalable application features.
- Mentored** 5+ teammates through **code reviews**, identified workflow inefficiencies across the team and proposed process improvements, and **collaborated** with the founder to define new features.

Full stack Developer, Payne Institute, Golden, Colorado (Part time) Sep 2024 – May 2025

- Designed, developed, tested, and deployed a full-stack application **independently**, building scalable REST APIs and optimizing database schemas for performant queries, while leveraging **Docker** and **AWS** for containerization and deployment.
- Integrated AI using **LangChain** and **Google Gemini** to build resilient and maintainable **Python** backend services that summarized satellite imagery and related analytical data, delivering instant results through **cached** and pre-analyzed responses.
- Built interactive **MapLibre** layers to visualize **200,000+** rows of satellite data across **50+** emitters, using custom icons and optimized rendering techniques to improve user experience and **map clarity**.
- Reduced average page load time by ~40% by monitoring system health and proactively improving performance by fixing react re-renders, optimizing **PostgreSQL** schemas and eliminating redundant API calls.

Senior Software Engineer, Tecnotree Convergence, Bangalore, India (Full time) Jan 2022 - Jul 2024

- Migrated **REST APIs** to **GraphQL**, designing **GraphQL schemas** to reduce data transfer up to **60%** and support **4+** cross-functional teams, and earning internal **recognition**.
- Developed a real-time usage and balance tracking feature for **telecom customers**, building a **Java backend service** that automated live monitoring of data, call, and SMS usage, reducing support queries by ~15%.
- Led** development of a **5-screen scalable component library** for a client in Kuwait, establishing consistent design patterns and a **reusable** front-end architecture that enabled users to add services and contributed to a **team award**.
- Successfully implemented a bottom navigator to a **mobile app with React native**, making navigation **3x** faster.
- Implemented **Detox end-to-end testing** and expanded **unit test** coverage across releases, accelerating development cycles, improving product reliability, and removing the dependency on manual testing.

Software Engineer, Credental LLC (startup), Lehi, Utah (Part time) Oct 2022 – Apr 2023

- Collaborated directly with the **founder** to design and develop core platform features for an **early-stage healthcare startup**, helping shape product requirements and technical decisions.
- Built and integrated **backend APIs** and developed the **complete multi-step questionnaire UI**, enabling seamless collaboration between **dentists** and **10+ insurance partners**.
- Implemented **real-time validation**, **auto-save**, and **dynamic dashboards**, reducing submission errors by ~30% and providing actionable insights from questionnaire data for healthcare providers.

EDUCATION

Colorado School of Mines - Master of Science in Computer Science, GPA: 3.7, Golden, Colorado
Teaching Assistant – Python (100+ students), Mobile app development- Kotlin (60+ students).

Dec 2025