

Sagar Datta

Location: Perth, WA • **Nationality:** Australian • **Email:** s@gar.jp.net

LinkedIn: [linkedin.com/in/sagar-datta98](https://www.linkedin.com/in/sagar-datta98) • **GitHub:** github.com/sagar-datta • **Portfolio:** sagar-datta.github.io

Professional Summary

Frontend engineer with proven expertise in React, TypeScript, and modern web technologies. Demonstrated track record of building high-performance, accessible applications with AI integration and advanced UX patterns. Specialised in architecting scalable solutions using industry best practices in component design, state management, and performance optimisation. Strong focus on delivering production-ready code with comprehensive type safety and automated workflows. Currently seeking opportunities to leverage technical expertise in building enterprise-grade web applications.

Featured Projects

Itinerai | AI-Powered Travel Itinerary Generator | sagar-datta.github.io/travel-itinerary-ai

- **Tech Stack:** Next.js 14 • TypeScript • Tailwind CSS • React Server Components • Google Gemini Pro API • React Hook Form
- **Key Features:**
 - Engineered sophisticated Next.js application with App Router and React Server Components for optimal performance
 - Implemented advanced state management using custom React hooks and context for complex application state
 - Developed comprehensive AI integration with Google Gemini Pro for intelligent travel planning with robust error handling
 - Architected feature-based project structure with strict TypeScript for maintainable, production-grade code quality
 - Delivered exceptional UX with system-aware dark mode, accessibility compliance, and responsive design patterns
 - Optimised performance through code splitting, client-side caching, and minimised re-renders for enterprise-level efficiency

Gastronaut AI | AI-Powered Recipe Generator | sagar-datta.github.io/gastronaut-ai

- **Tech Stack:** React • TypeScript • Vite • Tailwind CSS • Shadcn/ui • Framer Motion • Google Gemini Pro API
- **Key Features:**
 - Architected production-ready React application with specialised components and strict TypeScript for scalability
 - Engineered robust AI integration leveraging Gemini Pro API with comprehensive error handling system
 - Delivered enterprise-grade accessibility with ARIA compliance, keyboard navigation, and semantic markup
 - Maximised performance through advanced React patterns: code splitting, memoisation, and GPU acceleration
 - Implemented sophisticated UX patterns with state persistence and progressive disclosure techniques

Education

Bachelor of Information Technology with Distinction | RMIT University | 2018 - 2024

- **GPA:** 3.5/4.0
- **Key Courses:** Full Stack Development • Web Programming • Programming Project (React.js) • Advanced Programming Techniques (C++) • User-Centred Design • Cloud Security • Software Engineering Project Management • Foundations of AI for STEM
- **Location:** Melbourne, Australia

Bachelor of Informatics (Exchange) | Technische Universität München | 2019 - 2020

- **Location:** Munich, Germany
- **Focus:** International academic experience in Computer Science

Professional Experience

Frontend Software Engineer | Fyto Inc. | Jul 2022 - Nov 2022

- Engineered React-based data visualisation dashboard utilising Chart.js for real-time wildfire monitoring system
- Developed robust API integration patterns for reliable system monitoring and data flow
- Optimised dashboard performance through efficient state management and caching, reducing load time by 40%
- Led cross-functional collaboration with backend team to design and implement robust API endpoints

Frontend Developer | Shunya | Feb 2021 - Feb 2022

React web application development • Mobile-first responsive layouts • Touch-optimised interfaces • Reusable component library architecture • Modern performance optimisation • Best practices implementation

UI/UX Developer | Masika Design | May 2017 - Feb 2018

HTML5/CSS3/JavaScript portfolio website • CSS Grid and Flexbox layouts • Cross-browser compatibility • Lazy-loaded image gallery • 50% load time improvement

Technical Skills & Technologies

Frontend Core: React.js • TypeScript • JavaScript • Tailwind CSS • Framer Motion • Performance Optimisation

Architecture: Component Design • State Management • REST APIs • Type Safety • Clean Code • Modern Tooling

UI/UX: Responsive Design • Accessibility • Design Systems • User-Centred Design • Mobile-First

Tools & Methods: Git • VS Code • DevTools • Agile • CI/CD • Test-Driven Development

Professional Competencies

Engineering: System Architecture • Technical Documentation • Code Review • Performance Optimisation

Leadership: Cross-functional Team Leadership • Stakeholder Communication • Mentoring

Delivery: Agile Project Management • Problem Solving • Independent Working

Certifications & Awards

Foundations of User Experience (UX) Design - Google (2024) • RMIT Global Leadership Program - Global Citizenship (2021-2023) • RMIT Global Leadership Program - Building Cultural Intelligence (2020) • First Place in Applied Information Technology - Aquinas College (2015) • Hackathon Challenge Winner - Curtin University (2014)

References

- Marcel Furmie, Co-Founder & VP of Product at Fyto Inc. | marcel.furmie@fytoinc.com
- Terrance McMinn, Director of Technology at Shunya | t.mcminn@shunya.com.au

Additional Experience

Sports Leadership: Tennis team competitions • Championship achievements • Team mentoring

Technical Pursuits: Photography and digital image processing • Technical composition • Visual design

Global Perspective: International study and travel • Cross-cultural collaboration • Remote team adaptability