

# Sagar Datta

**Location:** Perth, WA • **Nationality:** Australian • **Email:** [s@gar.jp.net](mailto:s@gar.jp.net)

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

**Gastronaut AI | AI-Powered Recipe Generator** | [sagar-datta.github.io/gastronaut-ai](https://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

**Galerie | Modern Photography Portfolio** | [sagar-datta.github.io/galerie](https://sagar-datta.github.io/galerie)

- **Tech Stack:** React • TypeScript • Vite • Tailwind CSS • Cloudinary API • CSS Modules
- **Key Features:**
  - Designed scalable feature-based architecture utilising modern React patterns and modular composition
  - Engineered high-performance image loading system with blur-up effects and strategic preloading
  - Developed automated asset pipeline integrating Cloudinary API for advanced metadata processing
  - Crafted fluid user experience with responsive layouts and hardware-accelerated animations

## 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](mailto:marcel.furmie@fytoinc.com)
- Terrance McMinn, Director of Technology at Shunya | [t.mcminn@shunya.com.au](mailto: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