

Gary Huang

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Visa Status: Permanent Residency

Professional Summary

Product-minded and dedicated senior full-stack engineer with **5 years of experience** transforming user-centered ideas into high-performance applications that solve **real-world problems**. Proven ability to bridge the gap between product vision and technical execution, delivering solutions that prioritise user experience and drive meaningful impact.

Technical Skills

Front-end:	TypeScript, React , Redux, React Query, HTML5, CSS3, Gatsby.js, Next.js, Material UI, Tailwind CSS, styled-components, Storybook
Back-end:	Node.js , Express, RESTful API, GraphQL, MongoDB, MySQL
Testing:	Jest, Vitest , React Testing Library, Cypress
Tooling:	Git, Babel, NPM, Webpack, JIRA, Postman, Docker
Cloud:	AWS Lambda, S3, API Gateway, Amplify, Azure Function app, Azure App configuration, Azure AD
Methodologies:	Microservice, BDD, TDD, CI/CD, Agile

Work Experience

MY EMERGENCY DOCTOR	Oct 2023 – Current
Senior Full-stack Engineer	Sydney
Responsibilities:	
<ul style="list-style-type: none">Architected and implemented a real-time event-driven microservice system to correlate Twilio call events with customer records using React, TypeScript, Azure, Node.js and WebSocket to visualise real-time communication workflows and streamline clinical operationsIntroduced AI-powered clinical solutions including Heidi medical scribe platform, enabling doctors to reduce administrative time by up to 50%Explored and developing LLM applications for healthcare, currently building a proof-of-concept for intelligent medical information retrieval that enhance clinical decision-making processResponsible for the full-cycle development of three key projects with clear communication with product owners and strategic prioritisationBuild and maintain CI/CD pipelines across 5 projects using Github Actions to achieve auto testing, linting and deploymentCollaborated with senior BA, designers and product owners to priorities tasks, delivering superior results that aligned with customer expectationsDevelop Twilio flex plugin to introduce innovative features, reducing doctor time consumption by 30%Logging and hooking up application activities with Sentry to capture client-side issues before issues are reported by clients	

Achievements:

- Delivered a comprehensive real-time call monitoring dashboard that reduced operator response time by 40% with 99.7% event correlation accuracy
- Successfully reduced the workload of several public hospitals by 26% through our digital health services, helping public hospitals align patient retention times with standard benchmarks
- Enhanced clinical efficiency by 17% through AI-driven workflow optimisation, reducing average time spent per patient whilst maintaining superior quality of care and significantly lowering operational costs

LUMIANT

Mar 2023 - Oct 2023

Front-end Engineer

Sydney

Responsibilities:

- Maintain and refine Lumiant **design system**, using atomic design for categorising and theming front-end React components
- Develop front-end components with **TypeScript** and manage states with zustand
- Integrating GraphQL APIs that are exposed by **AWS cloud-only serverless architecture**
- Design and build reusable front-end systems that drive complex web application using modern JavaScript frameworks and **UI principles**
- Collaborate with product designer and API engineers to deliver an innovative world-class product with an **outstanding end client experience**
- Contribute and adhere to best coding practices, continuous integration and continuous delivery processes
- Participate in code review and solution designs

Achievements:

- Achieved a front-end data management layer to cache, sync and manage back-end response
- Successfully delivered two critical projects of high quality within extremely tight timelines, achieved zero major bugs and only a few minor bugs were identified during the UAT phase resolved within one week

SIEMENS

Apr 2022 - Dec 2022

Software Engineer

China

Responsibilities:

- Participated in splitting and converting a complex industry CAD software NX into a modern web-based application using React, Redux, and TypeScript
- Developed the functionality to allow parts manipulation using WebSocket and Three.js
- Followed the **TDD** methodology using **Jest** and **React Testing Library** for unit testing
- **Mentored** three team members on technical skills such as debugging and testing
- Set up the code formatting process, including **husky**, **ESLint**, and **prettier**, to ensure code consistence

Achievements:

- Developed the real-time features using WebSocket, enabling seamless updates and communication within the CAD application
- Achieved a 64% reduction in development project starting time, cutting it from 37 seconds to 13 seconds, by optimizing the **Webpack** configurations
- Reduced the website loading time by **73%**, resulting in a **saving of 11 seconds** per page load

I-MOTOR

Jul 2020 - Dec 2021

Front-end Developer

Sydney

Responsibilities:

- Designed and developed a robust, highly-reusable **React UI library** of 38 components from scratch with full support for **accessibility**
- Proactively identified **system bottlenecks** and researched industry best practices to implement a search solution, effectively resolving server-side rendering memory constraints and improving overall system efficiency
- Implemented a Storybook showcase to display the React UI library, enabling clients to **preview components** and easily select components for their websites
- Spearheaded the development of a cutting-edge **zero-code platform**, leveraging drag-and-drop functionality that empowers clients to easily customize their websites
- Designed and implemented a **code generator plugin** that can **dynamically generate JSX code** based on the JSON-based page layout data from the zero-code platform using Node.js
- **Automated** the **CI/CD process** including checking code format and commits, running **unit tests**, generating headless Chrome performance reports, and deploying using GitHub Actions, Gatsby Cloud, AWS S3, and CloudFront
- Improved the robustness and quality of components by unit testing with **Jest** and **React Testing Library** and achieved **92% test coverage**
- Mentor and share knowledge with development team members on react and its ecosystem

Achievements:

- Boosted company's **local market share** in Australia from **58% to 83%**
- The zero-code platform slashes **website delivery time from 60 hours to just 15 hours**
- Increased the customer base by 41% and boosted the customer retention rate from 46% to 72%

Education

University of New South Wales	Feb 2017 - Dec 2018
Master of Information technology	Sydney
South China Agricultural University	Sep 2012 - Jul 2016
Bachelor of Engineering	China

Certificates

AWS Certified Security - Specialty	Link
AWS Certified Solution Architect – Associate	Link
Oracle Cloud Infrastructure Certified Foundations Associate	Link
Oracle Cloud Infrastructure AI Certified Foundations Associate	Link
Oracle Cloud Data Management Certified Foundations Associate	Link
Product Management Basic Certification	Link
AI for Product Management	Link
Certified SAFe5 Partitioner (Scaled Agile)	Link