Jackson Chai

Full-Stack Developer | Founder | Masters (MAVI) | Tax Consultant |

About Me

I'm a full-stack developer, tax consultant and an A.I. enthusiast with expertise in corporate tax, data analytics, software development, and A.I. implementation.

My software expertise spans across multiple programming languages and frameworks, including Python, R, JavaScript, and TypeScript. I have hands-on experience with React and Next.js, building scalable web applications and integrating APIs. I am particularly familiar with OpenAI's API framework, with a good understanding of A.I. best practices and strategies.

I am also proficient in cloud infrastructure, including AWS and Google Cloud Console, and have experience in designing SQL and NoSQL databases according to industry standards. Additionally, I focus on designing secure systems with an emphasis on user experience and performance optimization. I specialise in using Supabase, a backend platform built on PostgreSQL, implementing best practices such as local development and testing, data seeding, and CI/CD.

I was formerly an ISCA Youth Ambassador, representing Singapore's National Accountancy body. In addition, I was also a Youth Advisor to the U.S. Ambassador, with the objective of enhancing bilateral ties between the U.S. and Singapore.

Socials

LinkedIn
https://www.linkedin.com/in/jackson-chai-chang-yue ⤢

GitHub
https://github.com/sg98ccy ⤢

Website
https://integratedai.sg ⤢

Projects

🌐 IntegratedAI (Portfolio Page)

</> Tech Stack: Vercel, Next.js App Router, React, TypeScript, Supabase (PostgreSQL)

- ✅ Implemented a feature-rich text editor using Tiptap, with custom extensions for HTML code integration and WYSIWYG rendering
- ✅ Integrated Supabase Auth for a multi-factor authentication system with OAuth support for Discord, Google, GitHub, and LinkedIn
- ✅ Implemented comprehensive security measures, including Content Security Policies, achieving an 'A' grade on SecurityHeaders.com
- ✅ Utilized Supabase for database management, including schema design, indexing, triggers, functions, and cron job implementation
- ✅ Incorporated abuse prevention mechanisms using rate limiting and CAPTCHA integration with CloudFlare services
- ✅ Developed server-side applications, including Telegram bots, for real-time notification delivery
- ✅ Set up an automated email system with Resend SMTP for handling transactional and marketing communications
- ✅ Established a local development and testing environment with Supabase, ensuring smooth deployment processes
- ✅ Configured domain settings, including subdomains and SSL certificates, to ensure secure HTTPS connections
- ✅ Created responsive React components adhering to front-end best practices and user experience principles
- ✅ Utilized Next.js App Router for server-side rendering and optimized routing to enhance performance and SEO
- ✅ Developed a real-time chat interface with functionality similar to Telegram for user communication
- ✅ Implemented authentication checks and protection mechanisms for secure access to protected resources
- ✅ Created middleware for managing and refreshing user sessions to maintain a secure user experience
- ✅ Developed custom Blog and Documentation pages utilizing the implemented rich text editor for content management

🌐 Real Estate Demo (Demo Page)

</> Tech Stack: Vercel, Next.js, React, TypeScript

- ✅ Designed and implemented a comprehensive hero section, statistics display, contact form, header, footer, and services section, focusing on aesthetic appeal and user experience
- ✅ Developed an admin dashboard featuring demo analytical graphs, insights, property management interface, and an agents display page
- ✅ Integrated Leaflet for interactive property listing and mapping functionality
- ✅ Created a custom FAQ section and settings page to enhance user interaction and site customization
- ✅ Implemented scrolling animations using the Framer Motion library to improve visual engagement and user experience

🌐 Work in Progress

`</>` Tech Stack: Vercel, Next.js, React, TypeScript, Supabase

- ✅ Developing an A.I. chat interface with image upload and recognition capabilities, integrating image generation features
- ✅ Implementing a user-friendly interface using React and Next.js, focusing on intuitive design and smooth user interactions
- ✅ Utilizing the Vercel AI SDK to incorporate multiple A.I. models, including OpenAI, Groq, Deepseek, and Claude
- ✅ Creating a scheduling AI system using Function Calling to interact with calendar applications
- ✅ Implementing and testing OpenAI Assistants API for Retrieval Augmented Generation to enhance AI response accuracy and reducing hallucinations

Work Experience

Founder
IntegratedAI Pte. Ltd.

📅 Dec 2024 - Present · 3 mos

Visit my website / portfolio: https://integratedai.sg

- Lead the development of AI-powered solutions for businesses

Associate, Corporate Tax Planning and Compliance
KPMG Singapore

📅 Sep 2021 - Feb 2024 · 2 yrs 6 mos

- Involved in the whole process of tax computations for clients, from obtaining financial statements and additional information from clients, to submission of documents to IRAS

- Strategise tax planning to save costs for clients

- Became the first point of contact with clients to handle enquiries and solve issues highlighted by clients

- Worked closely with clients and formed friendly business relationships with said clients

- Proficient in KPMG's newest tax computation system, thus increasing the efficiency of computations

Education

Master of Visualisation and Analytics (MAVI)

Singapore University of Social Sciences (SUSS)

📅 June 2024 - Present

Full-time

Current GPA: 4.5/5

Bachelor of Business (Accountancy)

SIM University

📅 June 2019 - June 2022

Organisations

Risk and Insurance Management Association of Singapore (RIMAS)

Chairman, Tax Risk Committee

📅 Oct 2024 - Present · 5 mos

- Chairman of the Tax Risk Committee

Institute of Singapore Chartered Accountants (ISCA)

Youth Ambassador

📅 Oct 2021 - Jan 2024 · 2 yrs 4 mos

- Represent ISCA, Singapore's national accounting body, as a Youth Ambassador

- Organised events to promote ISCA to the student body

U.S. Ambassador's Youth Advisory Council

Youth Advisor

📅 Feb 2022 - Mar 2023 · 1 yr 2 mos

- Advisor to the U.S. Ambassador to Singapore, H.E. Jonathan Kaplan

- Enhanced the bilateral ties between the United States and Singapore

Certifications

A.I. Singapore Level 2 certification

AI Singapore

🎗 Issued Aug 2024

Artificial Intelligence (AI)

AI4I® – Foundations in AI

AI Singapore

🎗 Issued Aug 2024

Artificial Intelligence (AI)

(SCTP) Associate A.I. / ML Developer

ATP (Corporate Income Tax) Level 1

NTUC LearningHub

 Issued May 2024

Artificial Intelligence (AI)

Tax Academy of Singapore

 Issued Jul 2023