

REN-HO (Jeremy) TSAI

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SUMMARY

Backend Engineer with expertise in RESTful APIs, database optimization, and AWS/Azure infrastructure. Proficient in leveraging Claude and Claude Code to accelerate development cycles and ship production-ready code faster. Experienced in Agile environments with a track record of building scalable, maintainable systems in C#, Node.js, and cloud-native stacks.

TECHNICAL SKILLS

AI & Developer Tools: Claude (Anthropic), Claude Code, AI-assisted development, Prompt Engineering

Languages: JavaScript / TypeScript, C#, Swift, Kotlin

Frameworks & Web: Node.js, Express.js, Nest.js, Next.js, React Native, HTML5, CSS3

Databases: MSSQL, PostgreSQL, MongoDB, Firebase

Cloud & DevOps: AWS, Azure, Microsoft 365, RESTful API design, Agile / Scrum

PROJECTS

Fly Panner — Flexible Flight Search & Weekly Price Alerts | | | 2025

- Built AI-first with Claude Code — defined flexible date ranges, scanned all date combinations via Duffel Air API, and automated weekly email alerts via Resend.
- Designed and managed a PostgreSQL schema with Prisma ORM; deployed on Vercel with Next.js and TypeScript.
- Sole developer — handled full-stack architecture, API integration, and production deployment end-to-end.

GitHub: github.com/renhotsai/fly-panner

Ace My Career — AI-Powered Job Search Platform | | | 2024

- Architected a hybrid AWS infrastructure combining serverless Lambda functions and containerized ECS services for scalability and cost efficiency.
- Integrated AWS Textract for AI-powered document processing, enabling automated resume parsing and analysis.
- Designed the full cloud deployment pipeline including Docker containerization and AWS service orchestration.

GitHub: github.com/renhotsai/job-search

JCA Pizza — Full-Stack Restaurant Delivery System | | | 2024

- Built a multi-role delivery management system in Node.js, Express, and MongoDB supporting customers, restaurant staff, and drivers.
- Designed RESTful API endpoints and database schemas for order lifecycle management across all user roles.

GitHub: github.com/renhotsai/Restaurant

WORK EXPERIENCE

Backend Engineer | Collaborate Technology | Taipei, Taiwan | April 2021 – August 2023

- Integrated RESTful APIs with third-party payment systems, orchestrating complex data flows between internal services and external payment providers.
- Leveraged Claude to accelerate debugging and code review cycles — surfacing edge cases in payment transaction logic before QA handoff.
- Implemented robust logging mechanisms for payment transactions; used Claude Code to rapidly scaffold diagnostic scripts and log parsers.
- Managed and optimized complex MSSQL operations, using Claude-assisted query analysis to identify index improvements and reduce execution time.

Software Engineer | Harmonation Inc. | Taipei, Taiwan | November 2020 – April 2021

- Tailored Windows desktop applications for banking workflows in C#, improving transaction processing speed and reducing UI friction for tellers.
- Used Claude Code to prototype and iterate on MSSQL data-access layers, enabling faster delivery without sacrificing code quality.
- Implemented optimized database queries and stored procedures, improving data retrieval performance across core banking modules.

EDUCATION

Cloud Computing Technologies Certificate | George Brown College, Toronto ON | September 2024 – August 2025

- Coursework: Microsoft 365, Azure, AWS — architecting and deploying cloud-native solutions.
- Applied Claude Code in cloud lab projects to accelerate IaC scripting (ARM templates, Bicep) and troubleshoot deployment issues.

Mobile Application Dev. & Strategy Postgrad Certificate | George Brown College, Toronto ON | September 2023 – August 2024

- Built cross-platform mobile apps in React Native, Swift (iOS), and Kotlin (Android).
- Applied Claude and Claude Code throughout coursework to explore AI-augmented mobile development workflows and accelerate project delivery.