

# REN-HO (Jeremy) TSAI

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## SUMMARY

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Backend / Full-Stack Engineer with 2+ years building RESTful APIs and cloud-native services on AWS and Azure. Skilled in C#, Node.js, and TypeScript, with hands-on use of Claude and Claude Code to speed up development. Based in Toronto, ON — open to Backend, Full-Stack, or Cloud Engineering roles.

## TECHNICAL SKILLS

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**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

## WORK EXPERIENCE

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### Backend Engineer | Collaborate Technology | Taipei, Taiwan

*April 2021 – August 2023*

- Integrated RESTful APIs with third-party payment systems, orchestrating data flows between internal services and external payment providers in production.
- Built logging and diagnostic tooling for payment transactions to speed up incident investigation.
- Optimized complex MSSQL queries and indexing strategy, materially reducing execution time on high-traffic payment reporting queries.

### Software Engineer | Harmonation Inc. | Taipei, Taiwan

*November 2020 – April 2021*

- Built and maintained C# Windows desktop applications for banking workflows, improving transaction processing speed and reducing UI friction for tellers.
- Designed MSSQL data-access layers and stored procedures, improving data retrieval performance across core banking modules.

## PROJECTS

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### Fly Panner — Flexible Flight Search & Weekly Price Alerts (2025)

- Built an AI-assisted flight search tool with Claude Code, scanning flexible date ranges across the Duffel Air API and automating weekly price-drop alerts via Resend.
- Designed and managed a PostgreSQL schema with Prisma ORM; deployed on Vercel using Next.js and TypeScript.
- Sole developer — owned full-stack architecture, API integration, and production deployment end-to-end.

[GitHub: \*github.com/renhotsai/fly-panner\*](https://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, balancing scalability against cost.
- Integrated AWS Textract for automated resume parsing and analysis.
- Designed the full cloud deployment pipeline, including Docker containerization and AWS service orchestration.

[GitHub: \*github.com/renhotsai/job-search\*](https://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 spanning the full order lifecycle across all user roles.

[GitHub: \*github.com/renhotsai/Restaurant\*](https://github.com/renhotsai/Restaurant)

## EDUCATION

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### **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 deployments.

### **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).
- Used Claude and Claude Code to explore AI-augmented mobile development workflows.

### **Bachelor of Information Technology | Ling Tung University | Taichung, Taiwan**

*September 2011 – June 2015*

- Fundamentals of C++ programming and object-oriented concepts; Android application development; electronic circuits and circuit analysis.