Backend developer with 4 years of experience specializing in building scalable web applications, cloud infrastructure, and system performance optimization. Passionate about writing clean, maintainable code and delivering robust solutions. Eager to leverage expertise to develop impactful software and continue professional growth.

Louis Chen

Backend Developer

📍 Taipei, Taiwan

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Work Experience

Backend Developer · BAT Mobile Inc.

OCT 2021 - Present

- Built a Node.js backend for a Customer Data Platform, processing 250k–300k records monthly into frontend-ready datasets
- Optimized performance and stability for a student platform with 670k+ registered users and 1.5k+ monthly active users, reducing downtime and latency under high traffic
- Deployed and configured GCP cloud infrastructure from scratch, including Kubernetes, database schemas, backend services, CI/CD pipelines, and firewall, enabling zero-downtime rolling updates
- Implemented real-time error monitoring with GCP Error Reporting and Sentry, reducing incident response time from hours to minutes

Full Stack Developer (Contract) · BCIT

Sept 2020 - Dec 2020

- Developed a management dashboard (CMS) enabling faculty and instructors to monitor and manage ISSP projects in real time
- Collaborated in Agile teams to analyze requirements and design effective implementation plans
- Delivered a fully functional MVP based on client requests, incorporating user feedback to refine features
- Optimized processes to significantly reduce client workload and improve employee workflow efficiency

Skills

Languages & Frameworks

- Python
- JavaScript
- Node.js
- Express.js
- React
- Flask
- FastAPI

Databases & Caching Systems

- MongoDB
- MySQL
- PostgreSQL
- SQLite
- Redis
- Memcached
- ORM / ODM

Cloud & DevOps Technologies

- GCP
- AWS
- Docker
- Kubernetes (K8s)
- Git (GitHub, GitLab)
- Bash
- Ansible

Education

British Columbia Institute of Technology

Dec 2020, Graduated with Distinction

Computer Information Technology Diploma: Computing and Information Technology

- Completed coursework in web development, data analysis, and system administration
- Implemented unit testing to ensure code quality and adherence to professional standards
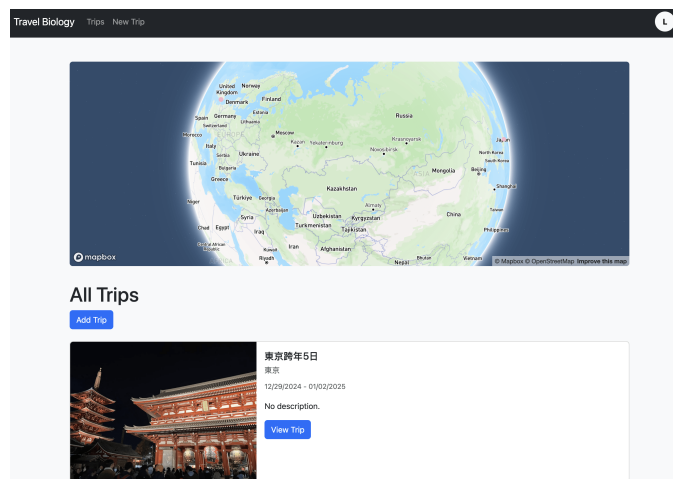- Gained hands-on experience collaborating with industry clients and professionals

The University of British Columbia

May 2017
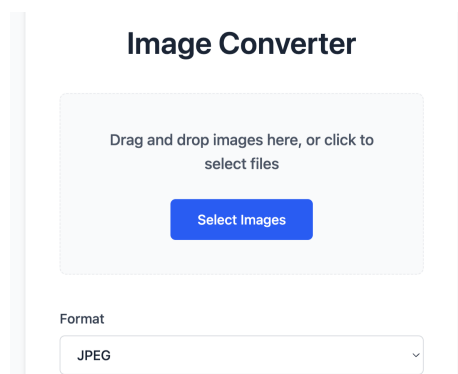
Bachelor of Arts: Psychology

- Developed advanced writing, research, and presentation skills through experiments and reports
- Enhanced and expanded knowledge of human science, social interaction and data analysis
- Completed coursework in economics, international finance, and statistics
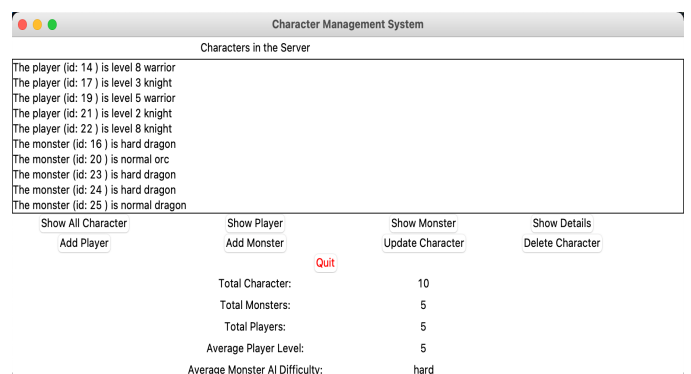
Projects

Travel Biology Blog

- Developed an all-in-one travel planning web app enabling users to create trips, plan daily schedules with stops, view interactive maps, manage flights and budgets, upload photos, and maintain to-do lists. Implemented user registration and authentication with JWT.
- Technologies: Node.js, Express.js, Passport.js (JWT), PostgreSQL, React, Bootstrap, Mapbox, Cloudinary, Git/GitHub

Image Converter

- Built a web application allowing users to upload images and convert them to JPEG, PNG, and WebP formats. Features include image resizing, grayscale conversion, quality adjustment, and batch downloading as ZIP files.
- Technologies: FastAPI (Python), React, Tailwind CSS, Docker & Docker Compose, Git/GitHub

Character Management System

- Created a desktop application simulating a game server management system, with a Tkinter GUI frontend and Flask API backend supporting full CRUD operations for game characters, using SQLite for storage and implementing unit tests and UML.
- Technologies: Python, Flask, Tkinter, SQLite, OOP, Unit Testing, UML, Git/GitHub