Personal Statement

Name: Yuhao Huang (Vincent)

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Location: Christchurch

(Open to relocation)

[Github Link](#)

[Linkedin Link](#)

University of Canterbury Bachelor's Degree

Major in **Computer Science**   Minor in **Statistics**

Full-Stack Engineer (React/TypeScript + Node/Python) with experience shipping production apps end-to-end, including a published Android app (~400 users).

Strong in building user-facing features, integrating REST APIs, debugging issues, and collaborating via Git PR/code review. Comfortable with Docker/Linux fundamentals and eager to grow in cloud-native systems.

Holding NZ Working VISA

SKILLS

Frontend
- React, TypeScript, JavaScript, Vue.js,
- Tailwind CSS, Ant Design

Backend
- Node.js, RESTful API, Prisma

Databases
- SQLite, MySQL, PostgreSQL (basic), MongoDB(basic)

Programming Languages
- JavaScript, TypeScript, Python, Java, C#, C/C++

DevOps
- Git, GitHub / GitLab, Docker
- Linux (Debian/CentOS)
- Nginx

Software Development
- Qt Framework, Capacitor, React Native, Flutter

Project Highlights

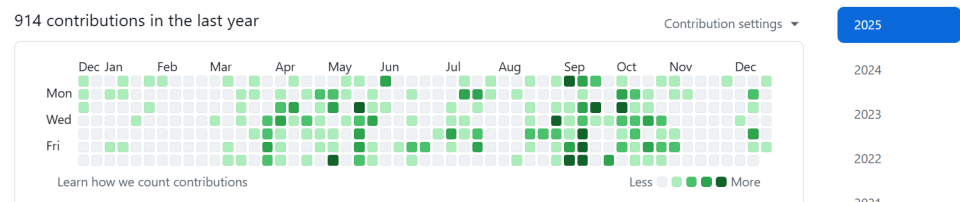### ERP Front-End Development Intern — Foreign Trade Company

Vue.js, RESTful API, Python | 2023

Problem solved: Contributed to improving the usability and efficiency of the company's internal ERP workflows spanning both front-end operations and data processing tasks across departments.

My responsibilities: Developed user-management and data maintenance interfaces including form-based input pages, and tabular views under the guidance of a senior front-end engineer, while also collaborating with the analytics team to gather requirements for automation solutions.

Technologies & automation: Built interactive UI components & page using Vue.js and consumed RESTful APIs within the ERP system; authored Python automation scripts to replace repetitive Excel-based data processing workflows used by the data team.

Results & outcomes: Enabled cross-team process improvements by reducing manual data-handling effort, improving turnaround time on reporting tasks, and delivering maintainable front-end features within an enterprise codebase.

914 contributions in the last year

To see more of my projects, please see: https://vincent-huang-2000.github.io/my-cv/

Project Highlights

Persona-based Multi-agent Chat & Debate Web App | Full-stack Developer

React, Vite, TailwindCSS · Node.js (Express) · Prisma · SQLite | Now

Problem solved: Built a more engaging chat experience beyond single-persona dialogs by supporting 1:1 persona chat, multi-agent group chat (up to 5 agents), and structured pro/con debate with turn rotation and optional shared interjection context.

My responsibilities:
- Owned end-to-end architecture and implementation across frontend, backend APIs, database modeling/migrations, and production deployment documentation.
- Drove core conversation flows: mode switching, turn-taking, context strategy, failure handling (retry/rephrase), and quality safeguards for multi-agent outputs.

Technologies & automation:
- API & deployment: implemented REST endpoints and server-side SPA hosting (static + fallback routing) for a single-service deployment.
- Prompt orchestration: composed persona prompts + scenario presets + user settings into stable system instructions to improve persona consistency across modes.
- Multi-agent controls: implemented a server-side orchestration layer to serialize multi-agent LLM calls, manage turn state, and enforce output quality via deduplication and retry mechanisms.
- Data & analytics: designed event logging (visit/heartbeat, persona selection, setting updates) and daily/global aggregates using Prisma + SQLite to support iteration.

Results & outcomes:
- Built and shipped a full-stack web application from scratch (0→1), covering frontend, backend APIs, and database persistence.
- Deployed the service to a remote Linux server, configured Nginx reverse proxy for routing and production access.
- Implemented structured logging and basic event tracking to analyze user behavior and inform feature iteration.

Cross-platform Mobile Charting App (React Native/TS) | Sole Developer

React Native, Expo, TypeScript, Swiss Ephemeris, SQLite | 2025

Problem solved: Designed and built a cross-platform mobile application serving both Chinese-speaking Vedic astrology learners and professional consultants, addressing the lack of high-quality localized tools and the absence of advanced analytical features found in existing software; implemented specialized capabilities based on domain research and literature study to support professional-grade consultations.

My responsibilities: Independently led the entire end-to-end development process, encompassing system architecture, feature development, documentation, UI/UX design, debugging, packaging, and release builds.

Technologies & algorithms: Integrated the Swiss Ephemeris astronomical library and implemented core Vedic calculation systems including Vimsottari Dasa period algorithms, planetary dignity scoring, Ashtakavarga analysis, multi-chart generation, aspect calculations, along with state management and SQLite data persistence for offline use.

Results & outcomes: Delivered a fully functional production-ready mobile app with accurate astronomical computations, high-performance chart rendering, and modular component architecture supporting complex data visualization across devices.