

# GUANLIN (DAVID) JIANG

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## WORK EXPERIENCES

### Moon Lab Limited

Software Engineer Internship (Part Time)

*Hong Kong SAR (on site)*

September 2024 - December 2024

- Fixed existing bugs and maintained the product. (**Solid.JS, Astro, Fastify, TypeScript**)

Software Engineer Internship (Full Time)

January 2024 - August 2024

- Developed a transfer & earning system for the coupon on the blockchain. (**Blockchain, Fastify, TypeScript, API**)
- Developed a SaaS Platform with **2-3** companies starting to use it. (**GCP, TypeScript, Solidity, Solid.JS, Firebase**)
- Participated in the development of the enclave blockchain wallet. (**AWS, Python**)
- Designed and implemented a reference & e-mail verification system leveraging. (**Firebase, PostgreSQL, Fastify**)

### Omniscol

Information Technology Internship (Full Time)

*Paris, France (on site)*

June 2023 - July 2023

- Implemented the API to create online meetings on MS Teams, Zoom, and Google Meetings, and the API for Google Classroom Creation, and already have **10 more** schools using it. (**Node.JS, REST API**)
- Participated in the development of the phone APP. (**React Native - Expo, TypeScript, OAuth2.0**)
- Implemented the push browser notifications in both online and offline cases. (**JavaScript**)

### Evergreen Wearable Technology Limited

Full Stack & Web3 Development Internship (Full Time)

*Hong Kong SAR (on site)*

August 2023

- Implemented the Trading Exchange Platform (DEX & CEX). (**Python, Flask, REST API, React.JS**)

## EDUCATION

**B.Sc (HONS) in Computer Science**, The Hong Kong Polytechnic University (Hong Kong SAR)

2021 - 2025

- Nominated & Exchanged to Fudan University (Mainland, China) & University of Cambridge (UK)
- Student Representative For Department of Computing, Class of 2025

## PROJECTS

### Authentication System (TypeScript + Nest.JS + Remix.JS + MySQL + Redis + Docker + DevOps)

- Login with **PassKey, Password** and **TOTP, Push Notification** Login, **QR Code** Login, Google, and Facebook **OAuth2.0**.
- Implemented the simple frontend and deployed it to Vercel, and used **Swagger** to build the backend API documents.
- The backend is deployed & maintained using the **cloud server** and also built network rules, firewalls, and blacklist.
- Use **Sentry** to track error & **Codacy** and **GitGuardian** to check the code security & **JMeter** to do the stress testing.
- GitHub: Authentication-System & Website & Backend API Docs

### Calendar WebAPP (Remix.JS + Vite + Firebase + Linux Cron)

- Enabled calendar item input via manual entry and CSV import, also email reminders for scheduled items.
- Integrated user authentication via email and Google OAuth, and reset password.
- GitHub: calendar-webapp

### Budget iOS APP (Swift + SQLite)

- Making a Budget APP by Swift (APP) & SQLite (Database) that can record transactions offline for the user.
- GitHub: Budget-iOS-APP

## HONOURS & AWARDS & CERTIFICATIONS

Software Engineering Virtual Experience — J.P. Morgan & Forage

2023

Postman API Fundamentals Student Expert — Postman

2023

PolyHack2023 Hackathon - Merit Award — PolyHack Organizing Team & HKPolyU & HKSTP

2023

- Team Leader & Developer

PolyHack2022 Hackathon - Honourable Mentions Award — Google Developer Student Club – PolyU

2022

- Team Leader & Developer