

## EDUCATION

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### **Hong Kong University of Science and Technology**

*Bachelor of Engineering (Computer Engineering)*

*CGA 3.396*

*HKSAR Belt and Road Scholarship (560 000 HKD over 4 years)*

**Hong Kong**

*August 2022-Present*

## PROFESSIONAL EXPERIENCE

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### **GNJ Manufacturing**

*Intern*

**Miami, USA**

*June 2023-August 2023*

- Conducted market research to identify trends and presented insights to the marketing team
- Collaborated on the development of marketing materials, including brochures and presentations
- Attended exhibitions to meet and work with suppliers

## PROJECT EXPERIENCE

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### **Deployed and Managed REST API on Virtual Private Server**

*October 2024*

- Deployed and managed REST APIs on a production server using DigitalOcean, which were callable by Next.js frontend interface that was hosted on Vercel
- Evaluated VPS services like AWS, Google Cloud, and DigitalOcean, ultimately selecting DigitalOcean for deployment
- Configured Nginx as a reverse proxy to serve Express APIs, routing requests from ports 80 and 443 to an Express server on port 3000
- Implemented and managed HTTPS and SSL certificates, ensuring secure, encrypted connections for web applications

### **ChatRoom Application**

*October 2024*

- Utilized the WebSocket protocol to deliver fast, persistent, and real-time messaging across multiple chatrooms
- Created MongoDB collections to store chatroom and user data
- Developed MongoDB schemas for chatroom and user collections to enforce data structure
- Implemented JavaScript and Express to establish client-server connections triggered when chatrooms are opened
- Built the frontend using Expo to achieve seamless real-time interaction across multiple devices and platforms

### **User Authentication with Database**

*September 2024*

- Developed a user authentication platform using Node.js (Express.js) that allows users to sign up and log in, with credentials securely stored in a MongoDB collection
- Implemented JWT-based session management, storing tokens in local storage for future authenticated API calls
- Integrated bcrypt for password encryption, ensuring secure storage of user credentials
- Utilized Express and the Passport library, along with middleware, to ensure only authenticated requests can access secure API endpoints

### **Weather Web App**

*August 2024*

- Utilized JavaScript, HTML, and CSS to develop a user interface that displays selected weather information
- Self studied the documentation for a weather information API to understand its usage
- Deconstructed the JSON object returned by the API and dynamically displayed the relevant weather information on the user interface

### **C++ Object-Oriented Chess Game**

*May 2024*

- Utilized inheritance and class templates to initialize and define the distinct properties of different chess pieces
- Implemented operator overloading to manage the specific movements and interactions of each piece

## SKILLS

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Coding Languages: JavaScript (Node.js), HTML, CSS, TypeScript, C++/C, Python

Frameworks/Libraries: Express.js, Expo, React.js, React Native, Next.js

Other skills: MongoDB, Nginx, Vim, Humor

Spoken Languages: English (fluent), Mandarin (can date a Chinese girlfriend)