

# GAO WANQIAN

[LinkedIn](#) | [GitHub](#) | [Website](#) | [gaowanqian.99@gmail.com](mailto:gaowanqian.99@gmail.com) | +65 90170314

## SKILLS

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**Programming** | JavaScript • HTML • CSS • Python • C++ • C# • SQL  
**Framework** | React Native • Django • Bootstrap • Node.js • Unity • ExpressJS • JUCE • p5.js  
**Database** | MySQL • PostgreSQL • Firebase  
**Language** | English • Mandarin Chinese

## EDUCATION

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**BSc Hons in Computer Science | SIMGE - University of London, Goldsmiths** *Apr 2020 - Apr 2023*  
Degree Classification: First Class Honors (83%) – *In Progress*

**Diploma in Industrial Design | Nanyang Polytechnic** *Apr 2016 - Apr 2019*  
Admitted to the Director's List (Apr 2018)

## PROJECTS

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[\[GitHub\]](#) **Astronomy Web App (Front-end)** | *ReactJS, Axios, Zod, MaterialUI* *May 2023*  
Responsive web app that allows querying (get, post) of planets position from an astronomy API.

- Fetch and Post request done with **Axios**
- **Zod** is used for validating react hook forms
- Implemented front-end UI with **MaterialUI**
- API used: [NASA](#), [Astronomy](#)
- Main features: Astronomy Picture of the Day, Planets positions, generate StarChart, MoonPhase

[\[GitHub\]](#) **Task Manager (Full-Stack)** | *React Native, Firebase* *Mar 2023*  
Providing users convenient monitoring and organization of daily tasks, deadlines and schedules.

- Implemented data storage, retrieval and user authentication with **Firebase**
- **React Context** for state access and management within the app
- User-friendly interface to create, edit, delete, categorize and prioritize tasks
- Main features: Appearance customization, Image/File attachments, Canvas integration

[\[GitHub\]](#) **Facebook Clone (Full-Stack)** | *Python, Django, SQLite, Redis, Bootstrap* *Sep 2022*  
Responsive social networking application created with Python, Django and Bootstrap

- Implemented front-end UI with **Bootstrap4**
- Back-end is done with **SQLite** as database, **Channel** and **Redis** for real-time chat, **Django REST Framework** for API, admin site for data and access management
- Main features: User creation, Authentication, Posting, Friend system and Real-time chat

[\[GitHub\]](#) **News Mobile Application (Front-end)** | *React Native, Axios, Jest* *Sep 2022*  
News application that fetches from news API, displaying them in a carousel view

- Real-time news retrieved from <https://newsapi.org/v2> with **Axios**
- **React Context** for state access and management within the app
- Main features: Light/Dark Mode, News Filtering by category and source, Search feature

[\[GitHub\]](#) **Bio Web Application (Back-end) | Python, Django, SQLite**

*Jun 2023*

RESTFUL API application that populates a database (**SQLite**) with gene data from csv files, allowing researchers to query data (**Django REST Framework**) from the database as and when they need

## EXPERIENCE

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**Jonite Private Limited | Industrial Design Intern**

*Jun 2018 - Sep 2018*

- Rendering, drafting technical drawings of company products (*KeyShot, Photoshop, AutoCAD*)
- Designed and modelled exhibition booth with *Rhinoceros*
- Draft guidelines and tutorials for future interns