

GAO WANQIAN

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SKILLS

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

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

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

- Implemented front-end UI with *MaterialUI*
- API used: [NASA](#) , [Astronomy](#)
- Main features: Get Astronomy Picture of the Day, get planets positions, Post request to generate Star Chart and Moon Phase

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

- Implemented data storage, retrieval and user authentication with *Firebase*
- *Context API* 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, Context API, 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*
- *Context API* 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

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