# **BRENDAN CHEONG ERN JIE**

#### **Software Engineer**

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**♥** Singapore

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BrendanCheong

#### WORK EXPERIENCE

# Software Engineering Intern Solar AI Technologies

May 2022 - Aug 2022

- Built and launched a new customer portal using React.js, Typescript, and NextJS which allows over 100 customers to manage their solar installation and liaise with solar panel installers.
- Upgraded critical GraphQL APIs and optimized the database schema to be at least 2x more performant.
- Architected fully automated UI and backend tests to achieve 100% code coverage (Jest, React Testing Library).
- Utilized AWS services such as DynamoDB, S3, Elasticsearch, Cognito, and EventBridge to build the business backend using the serverless architecture.

# Robotic Process Automation Intern

Ministry of Communications and Information

- Developed an automated bot using Python to register over 500 staff members for Zoom meetings and email staff on their Zoom meeting timings.
- Created automated email workflows using Python to remind staff members of meetings, reducing the time taken to send emails manually by 50%.

### **PROJECTS**

# Build.me (Online Product Aggregator) React.js, Node.js, Express.js, MongoDB, TailwindCSS

% https://github.com/BrendanCheong/Build.me

- Developed a web application that helps users find the best computer parts from e-commerce websites and allow users to compare the performance of different computer builds.
- Aggregated **over 500 products with price points** for easy price comparisons and reduced search time for finding computer parts **by 30 minutes**.
- Developed **interactive graphs and charts** to display price information about the computer build in React.
- Implemented an **authentication email service** by integrating the SendGrid email API with JSON Web Tokens.

# Lights & Locks (Smart Home Ecommerce System) Python, MySQL, Flask, MongoDB

% https://github.com/BrendanCheong/Online-Smart-Home-Ecommerce-System

- Led a team of 5 to develop a **full-stack desktop application** that allows users to purchase, search and send smart lights & locks for servicing together with an **admin management system**.
- Spearheaded the user interface design and collaborated with 3 others to program the graphic user interface.
- Created backend REST API server with Python Flask framework and designed database schema together with SQL and MongoDB queries for the backend server.

#### **SUMMARY**

Senior year Economics and Business Analytics undergraduate at the National University of Singapore who is passionate about full stack development with substantial hands-on experience in Javascript and React.

### **EDUCATION**

B.Soc.Sci in Economics, **Double Major in Business Analytics** and
Economics

**National University of Singapore** 

## Aug 2020 - May 2024

# PROGRAMMING LANGUAGES

#### **Experienced**

Typescript JavaScript Python
HTML CSS

#### Familiar

C++ Java SQL

### **FRAMEWORKS**

React AWS Node.js ElasticSearch
Flask Git Express.js MySQL

MongoDB

## **PARTICIPATION**

Hack and Roll - NUS
 BrainHack: CodeExp - DSTA
 BrainHack: Cyber Defenders
 Discovery Camp - DSTA

### **COURSEWORK**

- Database Management and Systems
- Data Structures and Algorithms
- Object Oriented Programming Principles
- Web Development
- Interaction Design