

Brendan Cheong

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EXPERIENCE

Hypotenuse AI (YC S20)

Singapore

Full-stack Software Engineer Intern

May 2023 – Nov 2023

- **Product Onboarding:** Increased conversion rate by redesigning the onboarding process for new users with React.js, Material UI, and Zustand. Added a rewards-based tour to guide users through all features, enhancing engagement.
- **File System Development:** Developed and designed a scalable folder and file system written in Python and Typescript, leveraging tree traversal algorithms to efficiently manage hundreds of user uploaded documents.
- **Translation Service:** Reduced cost of translating text by 50% and improved translation speed by refactoring the translation API service to use a AI model to handle translations.
- **Fraud Reduction:** Reduced fraudulent credit card testing transactions by 20% by developing a rate limiter using Redis to track fraudulent behaviour, integrating with Stripe webhooks.
- **Data Parsing Enhancement:** Enhanced the API service's data parsing capabilities, leading to a 30% rise in usage by large enterprise clients, processing over 10,000 requests daily.

Solar AI Technologies

Singapore

Software Engineer Intern

May 2022 – Aug 2022

- **Customer Portal:** Built and launched a customer portal in React.js, enabling over 100 customers to manage solar installations, improving customer experience and self-service capabilities.
- **CRM Application:** Increased sales team productivity by collaborating on the development of an internal CRM application using React.js, which managed over 200 customer contracts.
- **API Speed Enhancement:** Enhanced API speed by developing high-performance serverless GraphQL APIs in Typescript, backed by Elasticsearch and DynamoDB using Amazon Web Services (AWS) cloud technologies.
- **Testing Improvement:** Achieved 90% code coverage in unit and integration tests of the backend and frontend codebases using Jest by creating and refactoring tests.

Ministry of Communications and Information

Singapore

Automation Engineer Intern

Dec 2021 – Apr 2022

- **Automated Cron Jobs:** Boosted meeting attendance by 50% for a team of 500+ by engineering Python-based cron jobs to streamline daily Zoom meeting reminders.
- **Email Bot:** Reduced time spent sending emails manually by 100% by developing an automated email bot using Python and Selenium, sending customised reminders for upcoming town-hall meetings.

EDUCATION

National University of Singapore

Singapore

Bachelor of Social Sciences in Economics (Hons), Second major in Business Analytics (Computing)

Graduation: Jun 2025

Business Analytics (GPA): **4.00 / 5.00**

PROJECTS

Passion Passport: AI Travel Itinerary application

Python, Streamlit, BeautifulSoup, Firebase | [GitHub](#)

- In a team of 4, created Passion Passport, a web application that recommends travel itineraries based on user hobbies, using a Large Language Model to generate travel suggestions.
- Ranked one of the top 15 teams out of 200 participants in the LifeHack 2023 competition

Lights & Locks: Smart Home Ecommerce System

Python, MySQL, Flask, PyQt5 | [GitHub](#)

- 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

SKILLS

Languages: TypeScript, JavaScript, Python, SQL, HTML, CSS

Technologies: React.js, Zustand, Node.js, Next.js, Tailwind CSS, Material UI, AWS (DynamoDB, AppSync, Lambda)

Databases: Elasticsearch, MySQL, PostgreSQL, MongoDB