

AUSTIN WOON QUAN

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EDUCATION

- Singapore Management University** (Bachelor of Science in Information Systems, Software Development Major) **2017 – 2021**
- Cum. GPA: 3.96/4.00 (Summa Cum Laude)
 - *Awards:* Dean's List Academic Year 2017/2018, 2018/2019; IMDA Industry Preparation for Pre-graduate (iPREP) Programme
 - Active in Hackathons

PROFESSIONAL EXPERIENCE

- Bambu / Software Engineer Intern** **Jan 2021 – Apr 2021**
- Worked with React, Redux, FastAPI, Flask, Docker and NodeJS technology stack to develop robo-advisors for other businesses.
 - Developed a sustainability focused robo-advisor. This web platform allowed wealth managers to compare portfolios in relation to different ESG pillars and make decisions on the best combination of ESG equities for a portfolio.
 - Conducted Frontend testing with Cypress and integrated a payment gateway with Stripe.

- Goldman Sachs / Software Engineer Summer Analyst** **Jul 2020 – Aug 2020**
- Developed a full-stack web application with React, Redux, and Express, which serves as a single-source of truth for tracking of Over-the-counter derivatives' regulatory statuses.
 - Automated testing and deployment of application through a Gitlab Pipeline. Managed infrastructure with Kubernetes and Docker.
 - Optimized existing microservices' request chain, which reduced client-side response times by 50%.
 - Won "Best User Interface" and 1st Runner up for internal 5-day Goldman Hackathon. Created a full-stack dashboard application with React, Redux, Elasticsearch and Flask which optimized cash balance of bank accounts for Portfolio Managers.

- Shopee / Data Analyst Intern** **May 2019 – Aug 2019**
- Programmed Python scripts on Apache Spark to automate data pipeline processes and insight generation for Inventory Management. These projects significantly reduced cost of inventory mismanagement and enhanced working capital.
 - Designed and implemented automated data quality checks across Shopee's databases with Airflow and Spark. These checks helped eliminate data discrepancies from 50% to 0%.
 - Developed an initiative to clean Shopee's database of brands which helped to streamline the procurement lifecycle by increasing sales forecasting accuracy.

PROJECTS (View more on [my personal website](#) or [Github](#))

FAEDAS: *Events Matching platform and Enterprise Application for the Singapore Deaf Association (SADeaf).*

- **Technology stack:** VueJS, Terraform, AWS, NodeJS, GraphQL, Hasura, Github Actions, ElementUI
- Custom enterprise application which handled the volunteer-beneficiary pairing process, events management, invoice tracking, user management and customer resource management needs for SADeaf.
- Mapped complex business rules and processes into a fully-functional web application with the Agile Project Methodology.

Stock Trading Bot: *Automated trades with Interactive Broker's API based on personal rules, news and sentiments.*

- **Technology stack:** Python, Postgres, IBKR API
- Constantly polled for news from external sources and set IOC orders at an appropriate ask price determined by personal rules, historical prices and sentiments. 5% rate of return over three months from January to March 2021.

KnapTravel: *Travel planning application which automatically generated travel itineraries for tourists.*

- **Technology stack:** VueJS, SpringBoot, Docker
- With two constraints: (1) A user's interests and (2) their visit duration, a Knapsack + K-means algorithm was used to generate an itinerary for tourists which maximized their satisfaction score for a given visit duration. The itinerary route and details of places of interest was then visualized onto our front-end web application.

EXTRA-CURRICULAR ACTIVITIES / VOLUNTEER EXPERIENCE

- The Mentoring Circle / Mentor** **Sep 2020 – May 2021**
- Guided and coached a mentee toward reaching his goals in the tech industry.

- Overseas Community Involvement Programme / Fundraising Director** **Jan 2018 – May 2018**
- Travelled to Philippines for three weeks to help the less fortunate children in two separate schools. We used the raised funds to construct a library for our beneficiaries and revamp their school environment.

- SMU Ultimate Frisbee** **Aug 2017 – May 2021**
- Represented school in national varsity-level competitions and held leadership roles as Captain for two tournaments.

SKILLS

- **Programming Languages:** Javascript, Python, Java, PHP, MySQL
- **Frameworks:** React, VueJS, Express
- **Tools:** Docker, Kubernetes, Github Actions, Terraform, AWS, Git