HRISHIRAJ MANDAL

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EDUCATION

NATIONAL UNIVERSITY SINGAPORE   **Computer Science | GPA: 4.55 / 5**

- **Overall Champion** of **Ripple, NUS Fintech Summit 2024 Hackathon**
- **Top Student** of IS1108, awarded by NUS, School of Computing
- Core Modules: Functional and Object-Oriented Programming Methodology, Discrete Structures, Algorithms and Data Structures, Information Security, Computer Networking

VICTORIA JUNIOR COLLEGE   **GCE A Level | Rank Points: 90/90**

- **90/90 (Full Distinction)** with **additional H3/S-Level Chemistry**
- Recipient of **SINDA Academic Awards**
- Nominated and participated for **2019 Singapore Physics Olympiad**

PROFESSIONAL EXPERIENCE

SMARTKARMA   **Feb 2023 – Jul 2023 | Data Analyst Intern**

Testimonial: https://virusrwj223.github.io/hm/

- Usage of the **Bloomberg terminal** and open-source **BLPAPI API package** to streamline data retrieval using **Python programming language**
- Developed and maintained a data dashboard for the UX team, utilizing **PostgreSQL** to query the company database and **Excel** to visualize data using charts.
- Recommended website tracking strategies to the product team, utilizing the data collection tool **Google Analytics 4** to gather valuable insights.
- Optimized the data dashboard for the research team, using **PostgreSQL** and **Google Looker Studio** to enhance data visualization and streamline client onboarding.
- Automated the posting of company webinars using the platform's respective **APIs, Python,** and **Zapier**, resulting in increased webinar visibility and engagement.
- Assisted colleagues in **web scraping** various financial news sites using **Python** for internal usage, enabling the research team to gather up-to-date information efficiently.
- Automated weekly sales reports to CXO office using **Hubspot API, Python and SQL**

A*STAR   **(Incoming Jan 2025) | AI Research Intern**

- Support research on strengthened supply chains through AI

SELF INITIATED PROJECTS

Oma   **(May 2024 - Current)**

Backend, Quality Assurance, DevOps lead | AI

- **Native** recommendation app for dining places suited to your preference
- Recommendation algorithm built using **PyTorch**
- Adapted **MERN** stack (usage of **NEXT.JS** and **TRPC**) on **Turborepo**
- **Playwright testing** framework for unit and integration test in managing Quality Assurance
- Native application and ML model hosted on **Microsoft Azure**

    User guide: https://docs.google.com/document/d/11SEPNa5Z1mEtLLBuoHdEIO-Y0rPrTtn0plZOKLHMxr8/edit?usp=sharing

BAR-E (previously BASA)   **(Dec - Jan 2024)**

Overall Team Lead and Tech Lead | Blockchain

- **Winning** submission for **Ripple, NUS Fintech Summit 2024 Hackathon**
- dApp that connects landlords and tenants through contracts on the **Ethereum blockchain**
- First iteration of project built in Summer 2023 found here:*https://virusrwj223.github.io/BASA/*
- Usage of **Solidity** to prepare contracts and **Python Brownie** framework to deploy contracts
- Usage of **React.js** to craft user interface

    *Websit*e: https://bar-e.onrender.com/

GitHub: https://github.com/Virusrwj223
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