

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

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**

TECH STACK

	Purpose	Frameworks
Language	Frontend	React, React Native
JavaScript	Backend	TRPC
TypeScript	Database	MongoDB, PostgreSQL
Python	Testing	Playwright
Java	Project Framework	Turborepo
Solidity	DevOps	Microsoft Azure, Vercel
	Data Science	Numpy, Pandas, Scikit-Learn, PyTorch

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**

SELF INITIATED PROJECTS

Oma

(May - Current)

Backend, Quality Assurance, DevOps lead

- **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**

Installation guide: <https://docs.google.com/document/d/11SEPNa5Z1mEtLLBuoHdEIO-Y0rPrTm0plZOKLHMxr8/edit?usp=sharing>

BAR-E (previously BASA)

(Dec - Jan 2024)

Overall Team Lead and Tech Lead

- **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

Website: <https://bar-e.onrender.com/>

Personal Portfolio Website

(Jul 2023)

- A simple back-to-basics websites featuring a creative online profile
- Implementation of UI/UX design principles using HTML, CSS and React.JS

Website: <https://virusrwj223.github.io/hm/>

LINKS

Github: <https://github.com/Virusrwj223>

LinkedIn: <https://www.linkedin.com/in/hrishiraj-mandal/>