

## Education

The University of Hong Kong, *Bachelor of Engineering*.

Hong Kong SAR

*Major: Computer Science, Minor: Finance, Focus: Financial Computing. CGPA: 3.30*

*Class of 2024*

**Awards:** HKU Foundation Entrance Scholarship (**Full Tuition**).

**Positions:** Co-President UNICEF HKU, HKU Student Ambassador, HKU Equal Opportunity Ambassador.

**Highlight Courses:** Data Structures and Algorithms, Discrete Mathematics, Computer Organization, OOP & Java, Modern Technologies on World Wide Web, Artificial Intelligence: Utopia or Dystopia.

## Work Experience

GrinBean Limited, *Full Stack Developer*.

*Dec 2021 – Jan 2022*

- **Recreated** the legacy UI system using Vue and subsequently enhanced UX through redesigning the dashboard using chart.js for data analytics and visualization.
- **Seamlessly** developed data pipeline for iot device and server using express.
- **Contributed** to the text-based data mining and information extraction to train and modify the data driven AI model to achieve greater efficiency.

HKU Business School, *Research Assistant*.

*Nov 2021 – Jan 2022*

- **Build a dataset of filings** from the SEC Edgar database used in the research regarding Industrial Organization and Supply Chain Risk.
- **Increased the speed of data extraction by 60%** via implementing an algorithm that recognized the type of data required and instantly provided that for the project, saving multiple hours in the process.

QuokkaHR, *Software Developer*.

*Nov 2021 – Dec 2021*

- **Designed and developed** features using React to show attempts of team members so they can analyze their weaknesses.
- **Revamped** the project page using React to aid project managers differentiate between completed and incomplete projects.
- **Wrote tests** for authentication, authorization, and performed UAT to optimize the performance of the existing platform.

## Highlight Projects

*See more at [Shoh4g.github.io](https://shoh4g.github.io)*

MTR-Finder, *ongoing project for the visually impaired community to help navigate their way in the MTR station*.

- **Designing** the front-end of the app using JavaScript, React Native and its exclusive design components.
- **Collaborated** with peer developer to implement an algorithm to traverse a map of a MTR Exits to find the shortest path using graph representation and concepts such as Breath-First Search, Dijkstra's Algorithm, and A-Star Search. [View the project.](#)

COVID-19 Stats Portal, *a platform showing real time Covid-19 stats across the globe using graphs and maps*.

- **Created** using the open API disease.sh and made use of advanced React concepts such as react-leaflet.
- **Revamped** the platform using Chartjs and Material UI to enhance interactivity. [View the project.](#)

Crypto Verse, *A fully responsive and functional cryptocurrency tracker app*.

- **Developed** using React JS, Material UI and Chart JS.
- **Integrated** Context API to manage the state of the app and Coin Gecko API for the relevant data. [View the project.](#)

Sort-It, *A Sorting Visualizer*.

- **Demonstrated** with the aid of visualization, how different sorting algorithms work behind the scenes. [View the project.](#)

## Notable Awards and Certifications

HKU Foundation Scholarship, *Full tuition*.

Scholarship covering full tuition for entire study period.

HKU 3<sup>rd</sup> Engineering Inno-Show 2021, *Runner - Up*.

Developed an interactive game called Play2Study that uses gamification and is targeted towards HKDSE candidates. [Click here to learn more.](#)

JPMorgan Chase, *Finance for Non-Finance Program*.

Selected among 45 individuals from APAC region to complete a 2-week Finance training program under the guidance of JPMorgan associates.

GOLDMAN SACHS, *Engineering Virtual Program*.

Used Kali Linux and Hash cat to crack a leaked password database which were using Secure Hash Algorithm (SHA) and Message Digest (MD5).

JPMORGAN CHASE and CO, *Software Engineering Virtual Experience*.

Used React to create an interface with a stock price data feed and displayed data visually to traders.

Edexcel Higher Achiever's Award, *Top 113 out of ~230,000 Students Nationwide*.

For outstanding academic achievement in A' Level Examinations (**4 A\***) and IGCSEs Examinations (**7A\***).

Certificate Of Recognition, *Ministry of Environment, Forest, and Climate Change of the People's Republic of Bangladesh*.

For conducting multiple impactful activities regarding climate change and global warming.

## Skills

**Core:** Python, JavaScript, Java, C/C++, Shell, Hashcat, Linux/Unix/Kali Linux.

**Web & Database:** HTML5, CSS3, jQuery, React, React Native, Vue, Chartjs | NodeJS & Express | MongoDB, Mongoose, SQL.