

**SUMMARY**

Hello! I am a budding software engineer with a ferocious passion for imagination, inventiveness sustained innovation. I find myself drawn towards the infectious sense of entrepreneurial zest, deep creativity and high technical expertise common in Silicon Valley. I am especially excited about the boundless potential of blockchain technology; I hope to make my mark in the rapidly-evolving fintech industry in the future.

**EDUCATION****National University of Singapore****Yet to matriculate**

- Computer Science
- Offered NUS Merit Scholarship

**Victoria Junior College****Jan 2019 – Dec 2020**

- Integrated Programme (IP)
- Straight As for 4H2 content subjects
- Edusave Certificate of Academic Achievement / Good Progress Award (SGD300) / CDC -CCC Education Merit Award

**EXPERIENCE****Ascent Tech Full Stack Engineer****Dec 2020 – Apr 2021**

- Assembled a team of highly-skilled engineers
- Focused on using iterative development to transition from a basic MVP to a high-performant, high-impact application built on robust and scalable microservice architecture
- Developed an autonomous employee monitoring system to identify sources of organizational slack and inefficiency
- [Website Link](#)

**DrinksGoWhere Software Engineer Intern****Jan 2021-Feb 2021**

- Developed an automated workflow to transfer high volumes of messy data on bars menu to formatted **csv** files with **Node.js**
- [Link](#)

**SGExams Backend Engineer****Mar 2020 – Dec 2020**

- Streamlined a seamless database migration workflow from **PostgreSQL** to **MongoDB**
- Responsible for the development and maintenance of the SGExams server
- [Website Link \(received over 5000 signups\)](#)

**AWARDS****Singapore Games Creation Competition****May 2017 - Sep 2017**

- Achieved overall Merit Award
- Initiated the development of a 2D-platformer game that includes a boss level with basic artificial intelligence, using GMStudio and GML to raise awareness of environmental conservation

**Singapore Games Creation Competition****May 2018 - Sep 2018**

- Obtained overall Commendation Award
- Created a fast-paced game (a hybrid of a 2D-platformer and a shooting game) with GMStudio and GML to raise awareness of the importance of one's mental and physical health

**Cyber Defenders Discovery Camp by DSTA (Brainhack)****June 2019**

- Achieved 1<sup>st</sup> runners up in the JC Category
- Exposed to and solved several types of cybersecurity problems (cryptography, programming, OSINT, blind SQL injection etc.)

**YouthHacks Hackathon****Nov 2019**

- Obtained 2<sup>nd</sup> runners up in the Open Category

- Designed a Telegram chatbot that utilizes DialogFlow API to offer an engaging AI-based conversational interface and Firebase as the backend that renders different types of assistance (computational intelligence with Wolfram Alpha API, homework reminder etc.) to students today

#### **National Olympiad in Informatics**

**Apr 2020**

- Highest scorer in VJC and awarded Silver Medal
- Solved a problem utilizing Fenwick Trees (for logarithmic updates and queries) and dynamic programming (to accelerate computation of factorials) with **C++**

### **CO-CURRICULAR ACTIVITIES**

#### **Victoria Junior College V-Hack**

**July 2019 – present**

- Co-founder & Vice-President
- Championed an initiative in VJC to bring together like-minded people who are passionate and knowledgeable about computer science
- Created learning resources and conducted programming lessons on an ad-hoc basis for curious young minds

### **PROJECTS**

#### **iOS Drawing Application**

**2016**

- Launched a [YouTube channel](#) to produce high quality and engaging bite-sized content regarding the newest iOS topics and techniques in a period when Swift/XCode development was nascent
- Expanded the range of tutorials by offering hands-on, real-life software projects such as the **6-Part Drawing App Series** to boost audience engagement
- [Github Link](#)

#### **go.vjc.sg platform**

**2019**

- Kickstarted development of the front-end of a brochure website using HTML, CSS and jQuery for animations to introduce VJC's V-Hack Society
- [Website Link](#)

#### **V-Hack Website**

**2020**

- Developed an internal application that scraped and consolidated basic information (i.e name, age, class, secondary school etc. ) of students from the official portal into an extensible and beautiful table format
- Designed a powerful, real-time facial recognition service with **FacePlusPlus API** from a collection of photos that I scraped from my official school portal
- Created an [online judge](#) for V-Hack Society to automatically grade code submissions in a secure sandbox environment with Judge0 API against a set of pre-defined test cases
- Developed with Node.js, npm, Express, MongoDB, EJS and hosted with DigitalOcean, nginx (for reverse proxy) and Namecheap for domain