Isaac CHIN Wei En

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Personal Statement

My name is Isaac, a sophomore in the National University of Singapore pursuing a major in Data Science & Analytics. I am a highly motivated and dedicated individual. I have never shied away from difficult or intense situations. As someone who loves to be involved with the community, I often take up positions and participate in various activities. Through these uncomfortable and new situations, I develop myself as a person.

My interest in Data Science began even before my undergraduate studies. After my National Service ended, I started working on one of my major requirements, CS1010X Programming Methodology. This course pushed me to my limits, with no prior understanding or experience in coding, it was a very steep learning curve. However, with dedication, hard work, and many hours staring at errors, I eventually grew to adore programming. I jumped at the opportunity to use my newfound coding skills at my internship with Fuchs Capital Partners. This further cemented my passion for programming as I could see how the applications, I built for my colleagues greatly impacted their workflow and tangibly made their work easier. Till today I enjoy courses with computing components and even dive into hackathons and personal computing projects too.

Apart from hard skills, I am a meticulous person and a leader as well. I thrive in team-oriented environments and tend to be able to see the big picture when taking the lead on projects. Throughout my life, I have held various leadership and directorial positions. Since May 2023, I have been serving Sheares Hall as the Director of Media for the 43rd Junior College Room Committee. I sit on a board of nine directors that oversee the workings of Sheares Hall, a residential college, which consists of over 550 residents. I have three committees under my purview, with over 100 members in total. I actively connect with my committee members, value effective communication, and aim to empower them with a strong sense of ownership. From these experiences, I believe I can work well in many firms to help create a fun and positive yet productive work environment.

My experience in Fuchs cemented my passion for Finance and Analytics. At the fund, I got to know every analyst on the team. Being eager to learn, I pushed the boundaries of my job scope. Without any prior finance or investment knowledge, I had to learn almost everything on the job. I spent every spare moment combing through Investopedia, asking questions on how things worked and why they worked. Originally, I was meant to just handle daily report generation and Profit & Loss calculations. However, I quickly mastered these tasks and began to do more. As we utilized Bloomberg Terminal, I spent time navigating the various pages but was tipped off by my colleague to explore BQuant, a Jupyter Notebook variation ran within Bloomberg Terminal. Being in a lean team, the lack of resources led to me taking the initiative to pick up BQuant. I dived headfirst into understanding and learning the various packages and spent my spare time getting better with the packages. Once I understood the packages, I began building applications and dashboards for my colleagues, who were amazed at the responsiveness and simplicity of it compared to big and clunky excel notebooks. Through this experience, I learnt how to work with non-specialists and translate their wants into a finished product. Deciphering the problem statement is half the battle won.

Last summer, I interned at the Monetary Authority of Singapore as a Data Analyst Intern for the Reserve Fund Management Department. Here, we aimed to analyse and predict the behaviour of funds so that the Singapore Government could attain the best returns. Being the only data analyst on a team of finance specialists, I was tasked with creating machine learning models such as linear regression and time series analysis to achieve this goal. Working in a government organization opened my eyes to how many individuals work together to be part of a bigger picture. We worked with numerous other departments to get information, work on it, then pass it off. Through this experience, I am sure that I will be able to work in a big or small organization and communicate well with others.

Education

Aug 2022 – Present	**National University of Singapore** *Bachelor of Science (Honours) in Data Science & Analytics*	Singapore

- First Class Honours
- Major in Data Science & Analytics
- Minor in Quantitative Finance
- Minor in Computer Science
- Relevant coursework:
    - CS1010X (Programming Methodology)
    - DSA1101 (Introduction to Data Science)
    - IT1244 (Artificial Intelligence: Technology and Impact)

Feb 2018 – Nov 2019	**National Junior College** *Singapore-Cambridge General Certificate of Education Advanced Level*	Singapore

- Graduated with ABB/B in H2 Mathematics, H2 Physics, H2 Chemistry and H1 Economics

Work Experience

May 2023 – Jul 2023	**Monetary Authority of Singapore** *Data Analyst Internship*	Singapore

- Examined fund data to develop prediction models using linear regression, feature selection, and train-test splitting techniques. Feature engineering for variables such as Information ratio, Sortino ratio, market capture, and batting average for enhanced accuracy.
- Explored time series analysis methods such as ARIMA and SARIMAX to analyse past values and identify potential patterns.
- Applied visualization techniques to analyse factor correlations and behaviors of mandates over time, utilizing MSCI factors and beta analysis.

Mar 2022 – Jul 2022	**Fuchs Capital Partner** *Analyst Internship*	Singapore

- Carried out data manipulation, time series analysis and projects that require reading multiple spreadsheets in Python.
- Built analytical projects with common Python packages such as pandas, *NumPy*, *SciPy*, *plotly* and *bql*.
- Completed training and used Bloomberg Terminal and *BQuant* daily.
- Worked with analysts on different projects in new areas for the firm, such as: process driven quantitative analysis of fundamental data and data visualisation of stock sector/subsector historic performance.

Jan 2020 – Dec 2021	**Singapore Armed Forces National Service** *Dual Vocationist Overall-In-Charge*	Singapore

- Responsible for maintenance of driver currency records and mileage tracking sheets.
- Worked closely with commanders with regards to general administrative matters and planning for my camp.
- Promoted to CFC (Corporal First Class) in recognition of due diligence and high standards of work.
- Appointed Section 2IC during National Service Transition Training to coordinate and take responsibility for various stores and control equipment.

Scholastic Achievements/Extracurricular Activities

May 2023 – Present	**Sheares Hall** *43rd Junior Common Room Committee, Director of Media* • Overseeing a committee of 60 members, to develop and implement an effective social media strategy, creating engaging content and managing posting schedules to engage the hall's target audience. • Produced high-quality content for the hall social media and website, including videos, and photos, showcasing events and hall culture.	Singapore
Jan 2023 – May 2023	**Sheares Hall** *Secretary-Treasurer for Sheares Hall Media* • Managed the equipment rental and other admin processes for Sheares Hall Media, on top of the funds of the CCA. *Treasurer for Sheares Welcome Orientation Camp* • Managed funds and assisted in the planning and execution of the Sheares Welcome Orientation Camp for over 200 freshmen.	Singapore
May 2023 – Jul 2023	**NUS Orbital x TikTok Project** • Actively engaged in the Orbital program at the National University of Singapore during the summer. Worked with the *kitex* and *hertz* packages in Go programming language. • Developed comprehensive technical documentation which encompasses system architecture diagrams, API specifications, and user guides. • Integrated a load balancing algorithm into the API Gateway to efficiently distribute incoming requests among backend RPC Servers, enhancing system performance and reliability.	Singapore
Jun 2018 – Jun 2019	**National Junior College** *Student Council House Captain* • Enhanced House spirit throughout the school and planned numerous school events such as Graduation Night and House Games Day.	Singapore

Skill Sets & Proficiency

Office Productivity	Microsoft Word, PowerPoint, Excel	Proficient
Multimedia	Procreate Adobe Photoshop Adobe Lightroom Adobe Illustrator Adobe Premiere Pro	Intermediate Intermediate Intermediate Intermediate Proficient
Programming	Python R Java	Proficient Proficient Proficient
Software	Bloomberg Terminal BQuant BQL RStudio	Intermediate Intermediate Intermediate Intermediate
Non-technical Skills	Project Management	Basic

Language Proficiency

Spoken	English – fluent; Mandarin – average; Japanese - Basic
Written	English – competent; Chinese – average; Japanese - Basic

Additional Information

Other activities/interests	DJ-ing, Content Creation, Video Editing, Photography