

# HAW ZHE HAO, ELROY

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## EDUCATION

### National University of Singapore (NUS)

Aug 16 – present

- Bachelor of Science with Major in Quantitative Finance, Second Major in Computer Science
- Expected Date of Graduation: May 2020

## WORK EXPERIENCE

### Integer Alpha, Quantitative Analyst Intern

Jul 18 – present

- Developed risk-adjusted performance analytics in Python
- Wrote scripts to visualize traders' performances in Python
- Wrote wrapper classes in Python to simplify basic SQL operations for MongoDB and PostgreSQL
- Backtested traders' strategies in Java

### ThunderQuote, Product Development Intern

May 17 – Jul 17

- Conceptualized ideas to improve the company's website and documented step-by-step instructions for every feature to be developed
- Extracted data from company's database using PHP and exported them to CSV files
- Analysed and generated data reports using pivot tables to identify products that generated more revenue for the company

### National Service, Platoon Sergeant

May 14 – Mar 16

- Supervised and managed a platoon of over 30 men
- Looked after the well-being of the soldiers and planned their duties in camp and outfield
- Awarded with the Army NSF of the Year Award 2016

## PERSONAL PROJECT

### Cumulative Average Point (CAP) Calculator

Jun 18 – Jul 18

- A website for undergraduates to track their academic performance
- Developed using Flask, a micro web framework written in Python
- Utilised PostgreSQL as the database server to store user's information
- Wrote a Python script involving MechanicalSoup to automatically scrape websites for necessary information

## CO-CURRICULAR ACTIVITIES

### NUS Investment Society, Research Analyst in Quantitative Finance

Sep 17 – present

- Implemented the Black-Litterman model with additional constraints from rebalancing of portfolios

### Raffles Hall Musical Production, Corporate Marketing Director

Aug 17 – Feb 18

- Spearheaded the corporate marketing team to gather sponsorships for the production
- Collaborated with over 30 external vendors to execute a bazaar in campus
- Organised fundraising shirts and flowers sales
- Received over \$20,000 cash donations and over 30 other sponsorships

### Raffles Hall Orientation Camp Committee, Marketing Director

Sep 16 – Aug 17

- Spearheaded the marketing team to gather sponsorships for the camp
- Planned and organised the sponsors and the marketing team in Excel to ensure efficient collaborations
- Achieved more than 50 sponsorships for the camp

### Students' Council, Liaison Officer

May 12 – May 13

- Collaborated with the community and students from other colleges
- Planned and executed orientation activities for the freshmen as the overall in-charge of games

## ADDITIONAL INFORMATION

- Fluent in English and Mandarin (both spoken and written)
- Proficient in Python and Microsoft Office
- Familiar with Java (used for classes in Data Structures, Algorithms and Software Engineering)
- Familiar with HTML, JavaScript and CSS (used for the CAP Calculator project)
- Familiar with R and SAS (used for a class in Regression Analysis)
- Familiar with VBA (used for a class in Investment Instruments)