

# SCOTT HYUK-KYU LEE

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Github: <https://github.com/hur-kyuh-leez> Languages: Python, Flutter, Javascript, C#

## PROFESSIONAL EXPERIENCE

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### Union Square Securities, Republic of Korea

*Head of Research*

**April 2019 – Oct 2023**

- Allocated client's wealth using intangible assets listed below, resulting in over 150% increase in overall wealth.
- As of Aug 2023, the portfolio holds 10% in Cash, 80% in real estate, 9% in equities, 1% in closed investments(CB, Bar, Reptile Import), and 0% in cryptocurrency expecting continuous high-interest rates
- Built and constantly updated internal Python library for market simulation(backtesting) - decreased execution time by 40% for each simulation by indexing frequently used data
- Developed Kimchi Premium Bot, which detects and trades cryptocurrency arbitrages in the US and Korean markets
- Reviewed financial machine learning papers and consulted authors to produce better research results - increased one of the research results by 15%<sup>1</sup>, suggested not to use any deep learning cost function due to its inherent error
- Developed real-estate investment assistant which uses alternative data and detects abnormal activities such as mobile big data to assist discretionary investing. As of Aug 2023, the program suggested a real estate (Anseong-si, South Korea) back in 2019 is expecting a 200% minimum profit

### Chimera Securities, New York, NY

*Proprietary Equities Trader*

**Feb 2019 – April 2019**

- Consulted Senior traders on how to automate their trades - one trader's P/L ratio increased by 5%
- Obtained, refined, and visualized traders' requested data
- Changed antiquated hand scraping by implementing a simple IPO and Earning web scrapers using Python - saved an hour per trader each day<sup>2</sup>

### Trading, Republic of Korea

*Self-employed Korean Equities Trader*

**April 2016 – Dec 2016**

- Collected and converted financial data into an alternative data set, free-floats to volume ratio, when trading platforms did not provide the data at the time

### Samsung Life Insurance, Seoul, Republic of Korea

*Technical Consultant(Intern)*

**May 2011 – July 2011**

- Assisted in updating statistical-based software, which suggests optimal coverage plans for small to mid-size clients to maintain low estate costs
- Corresponded and successfully maintained client relationships for provided insurance coverage

## EDUCATION

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### Emory University, Atlanta, GA

**Fall 2011 - Fall 2012, Spring 2015 - Fall 2015, Spring 2017 – Fall 2017**

- Double Major in Computer Science and Mathematics
- Dean's List (Fall 2011); Pi Sigma Alpha (Fall 2011 – Spring 2012)

### Korea Accounting and Information School, Seoul, Republic of Korea

**Jan 2016 – July 2016**

*Pre-Certified Public Accountant*

- Independently obtained pre-requisite credentials for the public accountant exam

## LEADERSHIP EXPERIENCE

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### Teacher, Guang Hyun Presbyterian Church

**Jan 2019 – Present**

- Inspired students in need to learn coding and mathematics - one of my students received an honorable mention award in the 2019 Summer Math Competition held by Suwon Academy Union

### Manager, SCD Football Club

**Nov 2014 – 2021**

- Led the team to become the champions of the 2014-2015 Suwon Division Soccer League<sup>3</sup>

## LICENSE / LEGAL STATUS

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- FINRA Series 57 (Prerequisite License for Algorithmic trading)
- Korean Citizen / US Permanent Resident

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<sup>1</sup> [https://github.com/hur-kyuh-leez/Stock\\_Technical\\_Analysis\\_ML](https://github.com/hur-kyuh-leez/Stock_Technical_Analysis_ML)

<sup>2</sup> [https://github.com/hur-kyuh-leez/Earnings\\_Report\\_Scraper](https://github.com/hur-kyuh-leez/Earnings_Report_Scraper), <https://github.com/hur-kyuh-leez/IPOboutique>

<sup>3</sup> <https://youtu.be/ImlISjzW0ak>