BAE, Hangyeol

Linkedin: linkedin.com/in/hangyeol-bae-1bab15239/ Github: github.com/Hanthebot
Email: hanthebot@gmail.com

EDUCATION

Hong Kong University of Science and Technology *September 2023 - Present*

- Undergraduate, BSc in Computer Science and Mathematics
- CGA: 3.89/4.30, Year 2
- Dean's List 2023-24 Fall, Spring, 2024-25 Fall

PERSONAL PROJECTS

mdBookshelf: a Bookshelf for mdBook

- Simple wrapper and book manager for Rust's ebook utility, mdBook.
- Effectively handles display and file management problem without use of backend server.

Cryptocurrency Arbitrage Comparison

- Developed an application seeking "alpha" from cryptocurrency arbitrage on different exchanges.
- Involved the use of API, check of price, quantity, and exchange rate, ported to various platforms including CLI/GUI (Python), Google Apps Script, JAMstack, Android Java.

Telegram Chatbot

- Implemented and published interactive chatbot for cryptocurrency arbitrage comparison.
- Involved the use of personalized settings: exchange rate, alert setting, and trading pair.

Other Web Crawling

- Actively developed various other crawling projects involving casual requests, Selenium, BeautifulSoup4, JavaScript, and OCR as well as post-processing of data.

EXPERIENCES

Undergraduate Research Assistant (UROP) *September 2024 - Present*

- Working under Professor Dimitris Papadopoulos on project: *Implementation of Cryptographic Tools for Zero-knowledge proofs*
- Implementing an efficient multivariate polynomial evaluation within finite field

Undergraduate Teaching Assistant (UGTA) *February 2025 – Present*

- Serving as UGTA for COMP 2611, a Year 2 course on computer organization
- Assisting in lab preparation and answering student's questions.

Undergraduate Teaching Assistant (UGTA) *September 2023 – December 2024*

- Served as UGTA for COMP 2011, a Year 2 programming course on C++
- Assisted in assignment preparation and answering student's questions.

QT Team, KSA Research and Investment Strategy Society (KRISS), HKUST *September 2023 - November 2023*

- Researched and analysed the market using quantitative analysis and modelling, from the Korean Students' Association, HKUST.
- Implemented market data fetching and processing section for back-testing platform.

LANGUAGES

Korean (native), English (proficient), Thai (daily conversation), Mandarin (basic)

SKILLS

Programming Languages

- Python, C++ (proficient)
- JavaScript, Solidity (intermediate)
- Java, Android, Google Apps Script, Rust (basic)