Kye Son (Pyokyeong)

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NYC –Tokyo – Seoul

DUKE UNIVERSITY

Bachelor of Science, Computer Science;
Bachelor of Science, Economics (Double Major);   **CLASS OF '25**
Mathematics Minor; Foreign Lang. **Chinese** (2 yrs); **GPA: 3.82**/4.0; Selection of coursework: *Durham, NC*
- CS: *graduate* Algorithmic Game Theory, Deep Learning; *undergrad.* Databases, Advanced Algorithms
- Economics: *graduate* Mathematical Finance & Derivatives; *undergrad.* Econometrics, Macro & Micro
- Math: Statistical Inference & Learning, Linear Algebra, Multivariable Calculus
- Liberal Arts: Renaissance Art & History, Marxist Literature, GSF, Existentionalism, Epistemeology

SAINT MAUR INT'L SCHOOL

IB Bilingual Diploma, Japanese and English; **GPA: 4.77**/4.5 (A+: 5.0); AP 8 Subj.; IB 42/45   **CLASS OF '19**
Award of Academic Excellence and Leadership (one student); Student Council **President**   *Yokohama, Japan*

WORK & INTERNSHIP

*Currently at **Nomura Securities**, Risk Analyst*
Working on **Large-scale quantitative risk management data analysis pipelines**   **SUMMER '24** NYC
Nomura Securities Market Risk Engines – *Intern*
- Groundbreaking division's LLM use in risk analysis through CoT reasoning, ReAct agent and tool-use.
- Automated fund report performance/quant extraction from reports using RAG and vision
- Wrote libraries interfacing LLM and OLAP/SQL DBs, automating risk analysis tasks   **SUMMER '23** Tokyo
Hitachi Social Information Solutions – *Full-time Intern*
- Spearheaded administration front-end development (Angular) for Hitachi's Public Biometric Infrastructure initiative. Client was Japanese local government.
- Strengthened communication between developer and client with combined dev. and pros. program skills   **NOV '20 – '22**
Rep. of Korea Navy Interpretation Officer   *Jinhae, South Korea*
- Lead interpretation for US-ROK Command Post Training (CCPT) exercises
- Managed visiting crew from U.K., U.S., Indonesia, Germany for technical submarine tours   **SUMMER '20**
Cydoc Medical Notes – *Front End & Graphic Design Intern*   *Durham, NC*
- Oversaw a front-end UI overhaul with Javacript, React and Semantic-UI, with supporting branding guidelines & logo; adopted for final launch product   **SUMMER '19** Tokyo
KKMani's Sprout Team – *Financial News on Renewable Energy*
- Spearheaded a full rewrite of a cross-platform email framework with HTML & CSS, leading to enhanced client-side compatibility and standard adherence   **SUMMER '18** Boston

WRITTEN WORK

Wolfram Research Summer Program – "*Exploration of Fundamental Maths via Implementation of Common Axiom Systems and Proof Generation*" (link)
- Implemented group theory, boolean and integer algebra, and predicate logic in *Mathematica*
- Demonstrated relative feasibility of certain hypothetical axiom systems

LEADERSHIP

TAZNs Acapella Group, VP (1yr.), **Treasurer** (1yr.)
- Spearheaded group revitalization post-Covid–19, leading events, performances and communication
Lambda Phi Epsilon, Duke Associate Chapter, **Treasurer** (2yrs.)
- Orchestrated 20-year chapter alumni anniversary event with Hilton Hotel banquet and school administration, for the Largest Asian-American interest fraternity in the U.S.

PROJECTS

Homelab project with ESXi and later Debian & Proxmox, with second-hand server parts

SKILLS

Maintained services such as local DNS, OpenVPN, Apache web server for personal website
Contribution to **rust-coreutils** as part of OSS contribution and personal interest in Rust language design
Proficient in **Rust** (OSS)**, Python** (ML, Data Analysis), **C & ARM Assembly** (Coursework), **Mathematica** (Math Research), **Javascript/Typsscript** with **React & Angular** (Work experience)
Fluent in **Photoshop & Illustrator** (Work experience), **Excel** (Advanced work experience)

LANGUAGES

Fluent in **English** (*TOEFL:* 119/120, *IELTS:* 8.5/9), **Japanese** (*JLPT N-1:* 175/180)**, Korean** (*Native Speaker*)
Basic skills in **Chinese** (2 years coursework)