Kye Son (Pyokyeong)

DUKE UNIVERSITY

DUKE Bachelor of Science, Computer Science;

Bachelor of Science, Economics (Double Major);

website: pyoky.me / me@pyoky.me/ 984-758-4673 Box 96022; Duke University; Durham, NC, USA

Certificate in Philosophy, Political Science and Economics; Foreign Language: **Chinese** Cum. **GPA: 3.8 of 4.0;** Selection of coursework:

CLASS OF 2025 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, Marxism, Distributive Justice, Queer Theory & Feminism

SAINT MAUR
INT'L SCHOOL

IB Bilingual Diploma, Japanese and English; GPA: 4.77 of 4.5; AP 8 Subjects; IB: 42/45; CLASS OF 2019

Award of Academic Excellence and Leadership (one student); Student Council President

Yokohama, Japan

WORK & INTERNSHIP

Nomura Securities Market Risk Engines – Full-time Intern

SUMMER 2024 NYC

- 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

Hitachi Social Information Solutions – Full-time Intern

SUMMER 2023 Tokyo

- 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. mgmt. skills

Rep. of Korea Navy Interpretation Officer

NOV 2020 - JUL 2022 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

Cydoc Medical Notes – Front End & Graphic Design Intern

SUMMER 2020

Durham, NC

- Oversaw a front-end UI overhaul with Javacript, React and Semantic-UI, with supporting branding guidelines & logo; adopted for final launch product

KKMani's Sprout Team – Financial News on Renewable Energy

SUMMER 2019 Tokyo

- Spearheaded a full rewrite of a cross-platform email framework with HTML & CSS, leading to enhanced client-side compatibility and standard adherence

WRITTEN WORK

Wolfram Research Summer Program - "Exploration of Fundamental Maths via

SUMMER 2018 Boston

- 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

IB Extended Essay – "Evaluation of Optimization Algorithms for ML Applications"

SPRING 2019

- Implemented optimization algorithms with Numpy, Scipy libraries in Python

Yokohama, Japan

LEADERSHIP

Lambda Phi Epsilon, Duke Associate Chapter, Treasurer

- 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.

Temptasians Acapella Group, VP, Treasurer

- Spearheaded group revitalization post-Covid-19, leading events, performances and communication

PROJECTS

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

Maintained services such as local DNS, OpenVPN, Apache web server for personal website

SKILLS

Contribution to **rust-coreutils** as part of OSS contribution and personal interest in <u>Rust</u> language design Proficient in **Rust** (Open source software contribution), **C** (Coursework), **Python** (ML/LLM, Scientific

Computing), Mathematica (Research), Javascript with React & Angular (Work experience)

LANGUAGES

Fluent in **Photoshop & Illustrator** (Work experience), **Excel** (Work experience)

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)