Pyokyeong Son

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Box 96022; Duke University; Durham, NC, USA

Education

DUKE UNIVERSITY

Bachelor of Science, Computer Science;
Bachelor of Science, Economics (Double Major);   **CLASS OF 2025**
Certificate in Philosophy, Political Science and Economics; Foreign Language: Chinese   *Durham, NC*
Cum. **GPA: 3.73 of 4.0**
Selection of coursework:
- **CS**: *graduate* Algorithmic Game Theory; *undergrad.* Database Systems, Advanced Algorithms
- **Economics**: *graduate* Mathematical Finance & Derivatives; *undergrad.* Econometrics
- **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, for native-level Japanese and English   **CLASS OF 2019**
GPA**: 4.77 of 4.5 / AP 8 Subjects / IB: 42/45**   *Yokohama, Japan*
Award of Academic Excellence and Leadership (awarded to one student in graduating class)
President of High School Student Council, Robotics Club President (VEX competition), Varsity Basketball

Experience

Practical work and research in **UI/UX Design, Theoretical CS/Math, Technical Projects**

PLANS

Nomura Risk Division – *Information Technology Intern*   **SUMMER 2024**
                                                                                          NYC, NY

WORK & INTERNSHIP

Hitachi Social Information Solutions – *Full-time Intern*   **SUMMER 2023**
- Spearheaded administration front-end development (Angular) for Hitachi's Public   *Tokyo*
  Biometric Infrastructure initiative. Client was Japanese local government.
- Strengthened communication channels between developer and client with combined experience in
  front-end development as well as communication & project management skills
- Managed unit and user testing, and ultimate deployment of project

Rep. of Korea Navy Interpretation Officer   **NOV 2020 - JUL 2022**
- Lead interpretation for US-ROK Command Post Training (CCPT) exercises   *Jinhae, South Korea*
- Managed visiting crew from U.K., U.S., Indonesia, Germany for technical submarine tours

Cydoc Medical Notes – *Front End & Graphic Design Intern*
- Oversaw a front-end overhaul with Javacript, React and Semantic-UI front-end;   **SUMMER 2020**
  achieved performance enhancements and increased usability   *Durham, NC*
- Produced UI redesign with supporting branding guidelines & logo; adopted for final launch product

KKMani's Sprout Team – *Financial News on Renewable Energy*   **SUMMER 2019**
- Spearheaded a full rewrite of a cross-platform email framework with HTML & CSS,   *Tokyo*
  leading to enhanced client-side compatibility and standard adherence
- Designed branding guidelines & logo to increase readership, website serving as a new landing page

WRITTEN WORK

Wolfram Research Summer Program – "*Exploration of Fundamental Maths via*   **SUMMER 2018**
Implementation of Common Axiom Systems and Proof Generation" (link)   *Boston*
- Implemented group theory, boolean and integer algebra, and predicate logic in *Mathematica*
- Automatically derived proofs for basic theorems in each field within *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** **FALL 2022**

LEADERSHIP **Lambda Phi Epsilon**, Duke Associate Chapter, **Treasurer**   **FALL 2022**
- 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, Treasurer   **FALL 2023 - PRESENT**
- Spearheaded revival of group post-Covid–19 leading events, performances and communication

High School Student Council, President   **2018 - 2019**
- Organized inter-school events in Japan's international school association

DESIGN PROJECTS **Personal Website** with Svelte library*;* **@Bezold_Logo** Instagram page. Logo and branding; **Duke Chronicle's** segment. "Duke Universi-tea." Logo design; **Walk for Wuhan** coronavirus philanthropy event. Logo and branding.

TECHNICAL PROJECTS
- **Homelab project** with <u>ESXi</u> and later <u>Debian</u> & <u>KVM</u>, with second-hand server parts
  - Maintained services such as local <u>DNS</u>, <u>OpenVPN</u>, <u>Apache</u> web server for personal website
- **Personal website** with hand-written <u>HTML & CSS</u>; conforms to HTML 2.0
- Contribution to **rust-coreutils** as part of OSS contribution and personal interest in <u>Rust</u> language design

Skills

TECHNICAL SKILLS

Proficient in **Rust** (Open source software contribution)**, C** (Coursework), **Python** (ML, Scientific Computing), **Mathematica** (Research), **Javascript** with **React** (Work experience)
Fluent in **Photoshop & Illustrator** (Work experience), **Excel** (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)