

## Education

Pyokyeong Son

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Duke University; Durham, NC, USA

### DUKE Bachelor of Science, Computer Science;

### UNIVERSITY Bachelor of Science, Economics (Double Major);

Certificate in Philosophy, Political Science and Economics

Cum. GPA: 3.64 of 4.0 / Sem. GPA: 4.0

Coursework:

- **CS:** Algorithms, Formal Languages, Architecture
- **Math:** Linear Algebra, Multivariable Calculus, (Non-Bayesian) Statistics, Probability;
- **Economics:** Micro- & Macroeconomics with Calculus, Asset & Risk Management., Distributive Justice
- **Liberal Arts:** Renaissance Art & History, Marxism, Distributive Justice

CLASS OF 2025

Durham, NC

### SAINT MAUR IB Bilingual Diploma, for native-level Japanese and English

INT'L SCHOOL GPA: 4.77 of 4.5 / AP 8 Subjects / IB: 42/45

CLASS OF 2019

Yokohama, Japan

Award of Academic Excellence and Leadership (awarded to one student in graduating class)

President of High School Student Council, President of Robotics Club (VEX competition), Varsity Basketball

## Experience

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

### WORK Rep. of Korea Navy Interpretation Officer

NOV 2020 - JUL 2022

- Appointed liaison officer in Submarine Force Command, Jinhae, South Korea *Jinhae, South Korea*
- Lead interpretation for US-ROK Command Post Training (CCPT) exercises, joint submarine exercises
- Managed visiting crew from U.K., U.S., Indonesia, Germany for technical submarine tours

### INTERNSHIP Cydoc Medical Notes – Front End & Graphic Design Intern

SUMMER 2020

- Oversaw a front-end overhaul with Javascript, React and Semantic-UI front-end; achieved performance enhancements and increased usability
- Produced UI redesign with supporting branding guidelines & logo; redesign was adopted for final launch product

Durham, NC

### KKMani's Sprout Team – Financial News on Renewable Energy

SUMMER 2019

- Spearheaded a full rewrite of a cross-platform email framework with HTML & CSS, leading to enhanced client-side compatibility and standard adherence
- Designed branding guidelines & logo to increase readership as well as a website serving as a new landing page

Tokyo, Japan

### WRITTEN WORK Wolfram Research Summer Program – "Exploration of Fundamental Maths via Implementation of Common Axiom Systems and Proof Generation" (link)

SUMMER 2018

Bently Univ., 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 - PRESENT

- 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.

### High School Student Council, President

2018 - 2019

- Organized inter-school sports and social events in Tokyo's international school association: Kanto Plain Association of Secondary Schools (KPASS)
- Spearheaded improvements in school administration in grading policy, class regulation

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