

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: <i>Durham, NC</i>	
	- Math: <i>graduate</i> Mathematical Finance & Derivatives; <i>undergrad</i> Stat. Inference, Lin. Alg., Mult. Calc.	
	- CS: <i>graduate</i> Deep Learning, Algorithmic Game Theory; <i>undergrad</i> . Databases, Advanced Algorithms	
	- Economics: <i>graduate</i> Mathematical Finance & Derivatives; <i>undergrad</i> . Econometrics, Macro & Micro	
WORK & INTERNSHIP	<i>Currently at Nomura Securities, Risk Engine Developer</i>	
	- Large-scale quantitative risk management (VaR, ES, etc.) data pipelines (ETL)	
	- In Python (Numpy, Dask, Prefect) , Interfacing Quant Libraries (C++)	
	- Machine Learning for Risk VaR Prediction (cost reduction)	
	Nomura Securities Market Risk Engines – <i>Intern</i>	SUMMER '24 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 – <i>Full-time Intern</i>	SUMMER '23 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 '20 - JUL '22
	- Lead interpretation for US-ROK Command Post Training (CCPT) exercises	<i>Jinhae, South Korea</i>
	- Managed visiting crew from U.K., U.S., Indonesia, Germany for technical submarine tours	
	Cydoc Medical Notes – <i>Front End & Graphic Design Intern</i>	SUMMER '20
	- Oversaw a front-end UI overhaul with Javacript, React and Semantic-UI, with supporting branding guidelines & logo; adopted for final launch product	<i>Durham, NC</i>
	KKMani's Sprout Team – <i>Financial News on Renewable Energy</i>	SUMMER '19 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 – <i>"Exploration of Fundamental Maths via Implementation of Common Axiom Systems and Proof Generation"</i> (link)	SUMMER '18 Boston
	- Implemented group theory, boolean and integer algebra, and predicate logic in <i>Mathematica</i>	
	- Demonstrated relative feasibility of certain hypothetical axiom systems	
LEADERSHIP	TAZn's 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 Debian/Arch Linux , ESXi & Proxmox , 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 Rust language design	
	Proficient in Python (ML in PyTorch, Data Analysis in Prefect, Pandas), C & ARM Assembly (Coursework), Mathematica (Math Research), Javascript/Typscript with React & Angular (Work experience)	
	MinIO , Nexus , CI/CD , Advanced SQL , Apache Avro , Parquet formats, Linux Internals	
LANGUAGES	Fluent in Photoshop & Illustrator (Work experience), Excel (Advanced 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)	