

DUKE UNIVERSITY	<b>Bachelor of Science, Computer Science;</b>	
	<b>Bachelor of Science, Economics</b> (Double Major);	<b>CLASS OF '25</b>
	<b>Mathematics Minor</b> ; Foreign Lang. <b>Chinese</b> (2 yrs); <b>GPA: 3.82/4.0</b> ; Selection of coursework: <i>Durham, NC</i>	
	- <b>Math</b> : <i>graduate</i> Mathematical Finance & Derivatives; <i>undergrad</i> Stat. Inference, Lin. Alg., Mult. Calc.	
	- <b>CS</b> : <i>graduate</i> Deep Learning, Algorithmic Game Theory; <i>undergrad</i> . Databases, Advanced Algorithms	
	- <b>Economics</b> : <i>graduate</i> Mathematical Finance & Derivatives; <i>undergrad</i> . Econometrics, Macro & Micro	
WORK EXPERIENCE	Currently at <b>Nomura Securities</b> , Risk Engine Developer	<b>PRESENT NYC</b>
	- Large-scale <b>quantitative risk management (VaR, ES, etc.)</b> distributed data pipelines	
	- In <b>Python (Numpy, Dask, Prefect)</b> , Interfacing <b>fixed income</b> quant libraries (C++)	
	- Exploring <b>Machine Learning</b> for Risk VaR Prediction (cost reduction)	
	<b>Nomura Securities</b> Market Risk Engines – Intern	<b>SUMMER '24 NYC</b>
	- 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	
	<b>Hitachi Social Information Solutions</b> – Full-time Intern	<b>SUMMER '23 Tokyo</b>
	- 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	
	<b>Rep. of Korea Navy Interpretation Officer</b>	<b>NOV '20 - JUL '22</b>
	- 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	
	<b>Cydoc Medical Notes</b> – Front End & Graphic Design Intern	<b>SUMMER '20</b>
	- Oversaw a front-end UI overhaul with Javacript, React and Semantic-UI, branding guidelines & logo; adopted for final launch product	<i>Durham, NC</i>
	<b>KKMani's Sprout Team</b> – Financial News on Renewable Energy	<b>SUMMER '19 Tokyo</b>
	- Full rewrite of a cross-platform email framework with HTML & CSS,	
RESEARCH	Currently investigating <b>Ethereum Restaking (Eigenlayer) protocol</b> <i>cryptoanalytic security</i>	<b>PRESENT</b>
	- with Duke PhD candates in algorithmic game theory, theory of computation	
	<b>Wolfram Research Summer Program</b> – "Exploration of Fundamental Maths via Implementation of Common Axiom Systems and Proof Generation" (link)	<b>SUMMER '18 Boston</b>
PROJECTS	<b>Homelab project</b> with <b>Debian/Arch Linux</b> , <b>ESXi</b> & <b>Proxmox</b> , with second-hand server parts	
	Maintained services such as local <b>DNS</b> , <b>OpenVPN</b> , <b>Apache</b> web server for personal website	
	Contribution to <b>rust-coreutils</b> as part of OSS contribution and personal interest in <b>Rust</b> language design	
SKILLS	Proficient in <b>Python</b> (ML in PyTorch, Data Analysis in Prefect, Pandas), <b>MinIO</b> , <b>Nexus</b> , <b>CI/CD</b> , Advanced <b>SQL</b> , <b>Apache Avro</b> , <b>Parquet</b> formats, <b>Linux Internals</b> , <b>C &amp; ARM Assembly</b> (Coursework), <b>Mathematica</b> (Math Research), <b>Javascript/Typscript</b> with <b>React &amp; Angular</b> (Work experience)	
LANGUAGES	Fluent in <b>English</b> (TOEFL: 119/120, IELTS: 8.5/9), <b>Japanese</b> (JLPT N-1: 175/180), <b>Korean</b> (Native Speaker)	
	Business capable in <b>Chinese</b> (2 years coursework)	
LEADERSHIP	<b>Lambda Phi Epsilon</b> , Duke Associate Chapter, <b>Treasurer</b> (2yrs.)	
	- Orchestrated 20-year chapter alumni anniversary event with Hilton Hotel and Duke univ. for largest Asian-American fraternity in the U.S.	
	<b>TAZNs Acapella Group</b> , <b>VP</b> (1yr.), <b>Treasurer</b> (1yr.)	
	- Spearheaded group revitalization post-Covid-19, leading events, performances and communication	