

Daniel Hu

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EDUCATION

Princeton University

B.A. in Computer Science, GPA: 3.8

Princeton, NJ

Sep 2021 – May 2025

Relevant Courses: Introduction to Machine Learning, Advanced Programming Techniques, Elements of Decentralized Finance, Computer Graphics*, Linear Algebra with Applications, Algorithms and Data Structures, Reasoning about Computation, Introduction to Programming Systems (*= in progress)

National University of Singapore

B.S. in Computer Science, Exchange Program

Singapore

Aug 2023 – Dec 2023

EXPERIENCE

Morgan Stanley

Technology Summer Analyst - Counterparty Risk & Margin

New York, NY

Jun 2023 – Aug 2023

- Created new data pipeline using Protocol Buffers and Spring Boot between E*TRADE NoSQL stores and UI, saving **2,000+** lines of code by building upon handlers.
- Proposed and engineered new position object for Real Time Margin to display Wealth Management data for **150,000+** margin clients, engineered using Angular.JS
- Engineered a full-stack embeddings-based chatbot at Morgan Stanley's Inaugural Generative AI Hackathon, leveraging OpenAI's GPT-4 API and leading a team of 8 participants.

Fusion Systems Group

Software Engineering Intern - Dimare

Tokyo, Japan

Jun 2022 – August 2022

- Refactored dimare service and decreased load time by 33% by implementing application-wide Django/PostgreSQL util formatting methodology and enabling uniform rounding for all tenants.
- Built PDF generation functions in React and Django backend/frontend to query data from PostgreSQL database, creating viewable and accessible data for **1,000+** restaurant locations spanning 6 countries.

Princeton University

Research Assistant

Princeton, NJ

Jan 2022 – Dec 2022

- Engineered a Firebase-powered web app to store fNIRS data and generate linear regression models for attrition rates using **500+** datapoints, advised by Prof. Lauren Emberson in the Perception, Learning and Development lab.
- Designed a responsive graph-based user interface using Django to display specific visual relationships between 10 explanatory variables.

MBS Accounting Technology & Advisory

Software Engineering Intern

New York, NY

Jun 2021 – Aug 2021

- Devised an interactive web tool with HTML/CSS/JS to optimize consumers' selection of accounting stacks and technologies, delivered for use by the firm's **150+** clients.

PROJECTS

- **WorkWell** (Django, PostgreSQL, HTML/CSS/JS): Full-stack data storage and recordkeeping tool designed for Trenton-based nonprofit to accommodate re-entry of 200+ formerly incarcerated citizens. Obtained \$15,000+ in government sponsored funding.
- **Hoagie Mail** (React, Go) Webapp enabling Princeton students to send e-mails to entire 5,000+ undergraduate student body. Service supported 700 e-mails sent per month.
- **SocialScout** (HTML/CSS, Python) Machine learning and recognition web app designed to flag and identify potentially NSFW content on Twitter. Placed semifinalist for the Quarter Zero Cup Entrepreneurship competition.

SKILLS & ACHIEVEMENTS

Languages: Java, Python, JavaScript, TypeScript, C, R, L^AT_EX

Technologies: Spring (Boot), Django, NumPy, Pandas, PostgreSQL, React.js, AngularJS, MongoDB, Firebase, Node.js, jQuery, Git

Awards: Horatio Alger Scholar, QuestBridge National College Match Finalist & College Prep Scholar, USA Computing Olympiad Silver Division