

DANIEL HU

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EDUCATION

PRINCETON UNIVERSITY

2021 - Current

Computer Science (Intended Minors: Cognitive Science)

Princeton, NJ

- GPA: 3.8 | Relevant Coursework – 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, Computational Physics Seminar (*= in progress)

EXPERIENCE

MORGAN STANLEY

June 2023 – Current

Technology Summer Analyst - Client Portfolio Risk & Margin

New York, NY

- Exposed new data flow using Protocol Buffers between NoSQL stores and existing UI, saving 2,000+ lines of code by building upon handlers.
- Built frontend for E* TRADE Wealth Management data by implementing 10+ features, engineered using AngularJS.

FUSION SYSTEMS GROUP

June 2022 – Aug. 2022

Software Engineer Intern

Tokyo, Japan

- 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 - DEPARTMENT OF PSYCHOLOGY

Oct. 2021 - May 2022

Research Assistant

Princeton, NJ

- Engineered a Firebase-powered web app to store fNIRS data research and generate linear regression models for attrition rates using 500+ datapoints, advised by Prof. Lauren Emberson and Dr. Sori Baek in the Perception, Laboratory and Development lab.

MBS ACCOUNTING TECHNOLOGY & ADVISORY

June 2021 – Aug. 2021

Web Development Intern

New York, NY

- 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*

Apr 2023

- Full-stack data storage and recordkeeping tool designed for Trenton-based nonprofit to accommodate re-entry of 200+ formerly incarcerated citizens and obtain \$15,000+ in government sponsored funding.

HOAGIE MAIL | *React, Go*

January 2022

- Webapp allowing Princeton students to send e-mails to entirety of undergraduate student body. Service saw 700+ e-mails sent per month.

SOCIALSCOUT | *HTML/CSS, Python*

Mar 2020

- 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 / AWARDS

Awards: Horatio Alger State Scholar, QuestBridge National College Match Finalist & College Prep Scholar, Quarter Zero Cup Semifinalist, USA Computing Olympiad Silver Division, Maiden Voyage Scholar, Class of 2010 Tenth Anniversary Scholar

Technologies: HTML/CSS, Java, Python, React.js, Django, PostgreSQL, MongoDB, Firebase, Node.js, Go, Express, Bootstrap 3/4/5, jQuery, Git

Languages: English, Mandarin, Spanish