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 (*= in progress)

EXPERIENCE

MORGAN STANLEY   June 2023 – Current
Technology Summer Analyst - Counterparty Risk & Margin   *New York, NY*
- Exposed new data flow using Protocol Buffers and Spring Boot between NoSQL stores and existing UI, saving 2,000+ lines of code by building upon handlers.
- Proposed and engineered new position object for Real Time Margin to display E* TRADE Wealth Management data for **all** margin clients, engineered using Angular.JS.
- Invited to participated in inaugural Morgan Stanley's Generative AI Hackathon, building a full-stack web app using OpenAI GPT-4 API while leading a team of 8 participants.

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 and generate linear regression models for attrition rates using 500+datapoints, advised by Prof. Lauren Emberson in the Perception, Laboratory 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   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

Languages: Java, Python, JavaScript, TypeScript, C, R

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, Quarter Zero Cup Semifinalist, USA Computing Olympiad Silver Division, Maiden Voyage Scholar, Class of 2010 Tenth Anniversary Scholar