

Yihan Shi

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Education

Duke University

Durham, NC | 2019 - 2023

B.S. in Statistics (High Distinction), Minor in Computer Science & Neuroscience | GPA: 3.93/4.00, Cum Laude

- **Relevant Coursework:** Education Anthropology, Innovation and Entrepreneurship, Data Structures and Algorithms, Artificial Intelligence, Advanced Data Visualization, Probability, Computer Systems, Statistical Inference, Machine Learning

Work Experience

Mastercard Data & Services | *Software Engineer*

Arlington, VA | Aug 2023 - Present

- Coordinating with the core product team to deprecate legacy web application written in ColdFusion, saving \$2.5m in licensing cost
- Developing new web app features using .NET framework, such as document controller, which is a central location for users to look up, sort, edit, upload, and delete documents
- Implementing client-facing web front-end with React, directly serving enterprise customers such as McDonald's, Walmart, and BofA

Carta Healthcare | *Data Science Intern*

San Mateo, CA | May 2022 - Aug 2022

- Developed a data visualization dashboard with 10 progress-tracking metrics and presented at a client-facing Product Demo session
- Communicated core needs with the engineering team to speed up their data querying process by designing SQLAlchemy wrappers to scalably query OLAP
- Designed a template and workflow document for 2 NLP scientists to auto-generate HTML webpages for machine learning pre-training
- Reduced 30% of the time bioinformaticians spent on housekeeping tasks by implementing comprehensive & robust data cleaning process to reduce platform test errors systematically
- Saved 50% of the manual labor of patient profile simulation by building and maintaining an infrastructure that streamlined and scaled 100x simulation based on real-world distribution multi-dimensional array of data in PostgreSQL databases

Leadership and Extracurriculars

Duke Technology Scholars Program, *Duke University*

Vice President & Scholar

Jan 2021 - Jan 2023

- Managed 5 tech interest groups (i.e., Tech for Social Good, Data Science) with 170+ students by organizing 4 new member education sessions with other campus technology clubs and assigning monthly deliverables to subgroup leaders
- Recruited 9 subgroup leaders and mentored them on planning events, creating social media campaigns, and tracking goals effectively using Trello
- Oversaw 8 events in 2022 like food for thought and technical workshops by setting event agendas for subgroup leaders and creating outreach worksheets

International Association, *Duke University*

Vice President of Policy

Aug 2019 - Aug 2022

- Co-founded Duke International Alumni Affinity Group as a global platform of 1350+ alumni by collaborating with the advisory board of Duke International Alumni Committee
- Launched yearly panels and events on topics like international students' well-being and OPT/CPT training by cooperating with Duke Counseling & Psychological Services, Visa Services, and Career Center to help students navigate campus resources

Technical Project

DukeHub Student Portal 3.0

Sep - Dec 2021

- Created an R Shiny app that improved user experience of picking classes compared to the current student portal DukeHub 2.0 by identifying user (student, IT staff, professor) needs iteratively through campus-wide surveys
- Provided insights to 2408 Duke courses through interactive data visualization features including enrollment cap comparison, diversity of the subject areas, and expected traveling route and time on weekdays
- Collaborated with 2 student developers on designing and implementing frontend interfaces (i.e. type boxes, drop-down lists) and connected backend server to Google Maps API
- Selected as a key project by Duke Office of Information Technology and Code+ summer program; 2 design & feature improvements were adopted in the new version of student portal

Skills & Languages

Skills: Git, MS Office, Figma, Jira, Canva, AWS, Tableau, \LaTeX ; **Languages:** English, Mandarin Chinese, Japanese; **Programming languages:** Python, Java, C, C#, ASM, R, React; **Database:** SQL;