RACHEL X. LI

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EDUCATION

Harvard University   Cambridge, MA
Anticipated A.B. in Computer Science & Statistics (3.8 GPA)   May 2023
Coursework in CS, Machine Learning, Probability & Statistical Inference, Quantitative Finance, Linear Algebra.
Leadership: Founder / Co-President of Group for Undergraduates in Statistics at Harvard (GUSH)
- Lead the executive team to organize speaker and alumni panel events, educational workshops, social events, and volunteer initiatives for over 130 Harvard undergraduates.
- Organized summer mentorship program pairing 40 first-year students with upperclassmen mentors.

Spackenkill High School   Poughkeepsie, NY
Honors: Valedictorian (99.15 / 100 GPA)   June 2019
2nd Place National Team Winner at 2017 Siemens Competition; 2nd Place Materials Science at 2018 Intel ISEF; National Gallery for America's Young Inventors Inductee; US National Chemistry Olympiad Honors.

EXPERIENCE

Harvard University   Cambridge, MA
Teaching Fellow for Stat 110 (Introduction to Probability)   August 2020 – present
- Teach section and hold office hours for over 450 students in Harvard's intro statistics course.

IBM Research   Yorktown Heights, NY
Quantum Software Developer Intern   June 2020 – present
- Designed and implemented front end (React.js, Redux, Bootstrap) and back end (Python, SQLAlchemy, REST) for quantum hardware assembly configuration management.
- Designed data model architecture for a new micro-services approach to healthcare data management.
- Completed Qiskit Quantum Computing Summer School for interns and IBM Intern Hackathon.

Harvard College Consulting Group   Cambridge, MA
Analyst   February 2020 – present
- Developed national care-expansion strategy for a Fortune 500 medical devices manufacturer.
- Compiled and analyzed large datasets to evaluate efficiency of service and care nationwide.

Romulus Capital   Boston, MA
Campus Associate   September 2019 – June 2020
- Sourced and performed due diligence for early stage Seed and Series A startups in B2B enterprise.

Ojima Lab   Stony Brook University, NY
Simons Summer Research Fellow   June – August 2018
- Conducted computational chemistry research using docking analysis, molecular dynamics simulation, and 3D-QSAR modelling; discovered novel drug candidates for the treatment of tuberculosis.

Garcia Center for Polymers at Engineered Interfaces   Stony Brook University, NY
Garcia Research Scholar   June – August 2017
- Designed, synthesized, and characterized a novel hybrid hydrogel biomaterial to treat dental disease; research presented at 2017 MRS Fall Conference; patent covering novel material filed.

PROJECTS

Tech4BLM – created an online database to connect STEM undergraduates with tech-related volunteer opportunities at organizations addressing racial injustice, police/prison reform, and Covid-19; used React.js and Netlify.

Office Hours – developed a live video and Q&A interface for remote teaching; performed NLP analysis to group similar questions; used React.js, Node.js, MongoDB, and Watson NLU.

Soulmatcher – designed and implemented a personality test & dating website; used Python, Flask, HTML/CSS.

SKILLS

Javascript (React.js, Redux, Node.js), Python, Java, R, HTML/CSS, SQL, Flask