

RISHI JUNKAI BASU

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OVERVIEW

Self-taught programmer with advanced math background and 1+ YOY full-time SWE. Former car salesman who enjoys personal connection.

EDUCATION

University of Chicago, Mathematics, BS Expected 2026
Analysis, Algebra, and Topology. GPA: 3.36/4.00

St. Paul's School, Concord, NH 2018 - 2021
Graduated with Rector's Award

Online CS Courses

Harvard Computer Science 50 - Introduction to Computer Science and the Art of Programming - [EdX](#) 2019
Stanford Computer Science 129 - Applied Machine Learning - [Coursera](#) 2020

SKILLS

Technical Skills	Full stack web development, UNIX shell scripting, machine learning
Programming Languages	Python, R, bash, C, SQL, HTML/CSS/JavaScript, MATLAB, Tcl
Spoken Languages	Chinese (proficient), French (basic), Sanskrit (basic)

EXPERIENCE

UChicago Mathematics Research Experience for Undergraduates June 2024 - Present
Student

- Compiled notes on covering spaces (algebraic topology). Supervised by PhD candidate Kapil Chandran.

Nobias Therapeutics - Venture-backed AI-driven biotech startup Sep 2021 - Sep 2022, Summer 2023
Software Engineering Intern *Mountain View, CA*

- Scripted molecular screening for drug compounds in FDA trials.
- Built tools for querying and analyzing bioinformatic data.
- Developed an LLM agent using a fine-tuned version of Llama-2 to automate drug discovery research.

Mirak Hyundai Jun 2021 - Sep 2021
Car Sales Associate *Arlington, MA*

- Sold 32 cars (new and used, >\$1 million of inventory) over two months.
- Made it to the top half of the sales board.

PROJECTS

MD Simulations of Keratin Ran 40ns MD simulations of wild-type and S233L mutated keratin using NAMD. Analyzed RMSD, RMSF, Rg, H-bonds, and more. Final Project for BIOS 10603.

Capital Markets Projections Implemented Risk Parity Allocation algorithm for 2024 UChicago Trading Competition // Monte Carlo simulated future paths of major U.S. market classes using Ibbotson SBBI data via MATLAB & Excel to support a fintech venture in 2020.

EXTRA-CURRICULARS AND INTERESTS

Midway Ventures (third place at UChicago VC competition), GeneHackers, Bhangra team, Financial Markets Program | VP of HS class, Chess captain (1481) | Interests: bicycling, car modification, urbanism