

# Rijul Jain

[rijuljain.com](http://rijuljain.com) [rijul.jain@williams.edu](mailto:rijul.jain@williams.edu) [linkedin.com/in/rijul-jn](https://linkedin.com/in/rijul-jn) [github.com/rjainrjain](https://github.com/rjainrjain)

## Education

Williams College, Williamstown, MA, USA | 2021-2025

- BA Computer Science and English; GPA: 3.99/4.0

- Coursework: Independent Research in Computer Science, Principles of Prog. Lang., Algorithms, Computer Organization, Data Structures, Mathematical/Computational Approaches to Social Justice (research course)

University of Oxford, Oxford, UK | 2023-2024 academic year

- Visiting student at Exeter College as part of the Williams-Exeter Programme at Oxford

- Coursework: Models of Computation, Data Visualization, Compilers

## Experience

Microsoft Research (Redmond, WA), *Undergraduate Research Intern* (Summer 2024)

- Researching end-user trust and verifiability of AI-augmented programming systems at Microsoft Research Redmond

- Working with Prof. Shan Lu and Dr. Sarah Fakhoury as part of MSR's Undergraduate Research Internship in Computing program

Carnegie Mellon University Software and Societal Systems Department, *Research Intern* (Summer 2023)

- Researched domain-specific program generation with large language models for diagram authoring with Penrose, a text-to-diagram platform

- Worked with Profs. Joshua Sunshine and Keenan Crane as part of CMU's Research Experiences for Undergraduates in Software Engineering (REUSE) program

- Achieved 96% compile rate for LLM-generated programs; presented poster at SPLASH 2023 and short paper at PLATEAU 2024

Williams College Department of Computer Science, *Summer Research Intern* (Summer 2022)

- Partially modeled the Unix filesystem with an intermediate representation by writing a programming language in C++ using systematically tested and safe POSIX system calls (BitFridge, under Professor Daniel Barowy)

- Cataloged unexpected system call behavior by probing 100 million inputs each with fuzzers written in C

Williams College Department of Mathematics, *Research Assistant* (Fall 2021 - Spring 2022)

- Compiled dataset of 2200+ musicians by scraping 30 websites' data to analyze gender and racial diversity in US professional orchestras under Professor Chad Topaz using R and HTML/CSS knowledge

Stanford University, Center for Computer Research in Music and Acoustics, *Intern* (Summer 2020)

- Updated website code for FAUST (Functional Audio Stream) programming language using HTML/CSS

**Skills/Interests** - programming languages and software engineering, human-computer interaction, artificial intelligence, human-centered design, cognitive psychology, cognitive literary science, Victorian literature, literary criticism and theory, research.