

ISHA SHRIVASTAVA

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EDUCATION

Rutgers University, New Brunswick

Bachelor of Science in Computer Science, May 2027

Coursework: Intro to Comp Sci (Fall 2023), Data Structures (Spring 2024), Computer Architecture (Fall 2024), Data 101 (Fall 2024), Discrete Structures (Fall 2024)

Edison Academy Magnet High School

Civil/mechanical engineering track, June 2023

SKILLS

*Programming Languages/Frameworks: (Proficient) Java; (Familiar) Python, C, R, HTML, Javascript, Matlab, React Native, Next.js
Other: Github, Watson AI assistant, Solidworks, Figma, Canva, Adobe Photoshop, Final Cut Pro, Arduino IDE, BLAST (Basic Local Alignment Search Tool)*

EXPERIENCE

Software Engineering Fellow

HeadstarterAI, July - Sep 2024

Completed 5 AI-based projects utilizing various technologies and programming languages to broaden my skillset. Gained insights into standing out amongst peers and adapting in a world of ever-changing technologies by speaking with industry leaders, mentors, and other fellows from around the world.

Computer Science Research Intern

Project SUPER, Summer 2024

Completed mathematical proofs to analyze the accuracy bounds for a modified version of the space-savings algorithm that detects the most frequent items in a data stream with bounded memory and compute budget.

Computational Chemistry Research Intern

Rutgers University, Feb - May 2024

Visualized proteins from Protein Data Bank using VMD software. Learned how Python, Shiny, and AI (AlphaFold) are used in the field.

Bioinformatics Mentee

Velsera, Aug 2022 - Jan 2023

Utilized IGV and VEP to visualize and identify cancer variants from DNA sequences taken from the ClinVar database. Used the data to find the corresponding drug for the most pathogenic variant.

Business Intern

iStartValley, Jun - Oct 2022

Developed entrepreneurial research skills, learned to map regional innovation assets, spot industry trends, and generate business pitches applying the lean startup methodology. Explored the latest intersections of technology and business.

App Development Intern

Junior Achievement of NJ, Sep 2020 - Sep 2021

Completed full-stack development of a volunteer hour tracking app with React Native. Designed app logo using Krita.

PROJECTS

PullUp

Rutgers University, Spring - Summer 2024

Won the Rutgers CreateX designathon with thorough user research and a Figma design for a gym-buddy finder app. Continued to work on frontend development and a OpenAI API based customer service chatbot with the team throughout the summer.

Pantry Tracker

HeadstarterAI, Summer 2024

Created a Next.js based virtual pantry tracker with Material UI components and a Firebase backend to add, delete, and update pantry items.

InvestIQ

Rutgers University, Spring 2024

Developed the app design, performed user research, and gathered survey data to develop the InvestIQ app and its features as part of the UI/UX team of the RUMAD Incubator. The app aims to allow users to track and follow congressmen's portfolios, addressing the problem of the transparency and accountability of government officials stock purchases.