

Rohan Kumar

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Education

University of Minnesota - Twin Cities

Expected May 2025

Bachelor of Science in Computer Science and Data Science, Minor in Statistics

- **Activities:** UMN Chess, UMN Game Dev, Social Coding, ACM, NSBE, SHPE, UMN CPP, CodePath Fellow
- **Relevant Coursework:** Data Structures & Algorithms, Machine Architecture, Software Development, Linear Algebra, Discrete Math, Statistics, Internet Programming, Computational Biology, Biosystems & Bioproducts Engineering

Technical Skills

Languages: Python, Java, JavaScript, HTML, CSS, R, Assembly, C, C#, SQL

Technologies: Express.js, JavaFX, Pandas, NumPy, Matplotlib, SPSS, Scikit-learn, Pygame

Tools/Platforms: MongoDB, Git, GitHub, Unix, Linux, Azure, Word, Excel, PowerPoint, GSuite

Certifications

- Oracle Cloud Management 2023 Foundations Associate (1Z0-1105-23)
- Oracle Cloud Infrastructure 2023 Foundations Associate (1Z0-1085-23)

Experience

Engineering Intern

Jan 2024 – Present

Modine Manufacturing

Minneapolis, MN

- Incoming Engineering Intern at Modine Manufacturing during winter 2024

Software Development Teaching Assistant

Aug 2023 – Present

University of Minnesota- (CSE) Dept. of Computer Science & Engineering

Minneapolis, MN

- Assisted the Professor to refine course materials from previous semester feedback to ensure clarity on topics/projects/labs
- Conducted weekly lab sessions with 150 students to help grasp complex topics in **Software Dev/Data Structs & Algo**
- Mentored students 1 on 1 students in office hours & created comprehensive documentation/solutions for labs/projects

Bioproduct & Biosystems Engineering Teaching Assistant

Aug 2023 – Present

University of Minnesota- College of Science & Engineering

Minneapolis, MN

- Collaborated with the Professor to refine course materials from previous semester to ensure clarity on topics/projects
- Provided weekly feedback to 200 students to help grasp complex topics in **Bioproducts & Biosystems Engineering**
- Mentored students weekly 1 on 1 in office hours & created documentation/rubrics for assignments/projects

Data Analyst Intern

May 2022 - Aug 2022

University of Minnesota- Twin Cities Undergraduate Office of Admissions

Minneapolis, MN

- Presented weekly engaging PowerPoints to 40-100 visitors about the University of Minnesota
- Operated in a scrum team to organize student information in a successful manner by engaging with SWE/Sys Admins
- Utilized **Pandas & NumPy** to analyze student information to identify similarities & overlaps in 20,000+ datapoints

Projects

MediHealth Analytics | Python, Pandas, NumPy, Scikit-learn, SPSS, Matplotlib

[GitHub](#)

- Built a predictive analytics model to forecast diseases & patient diagnosis for healthcare professionals with **Scikit-learn**
- Leveraged **SPSS** software for an in-depth analysis & interpretation of medical data for enhancing decisions
- Visualized key trends to uncover intricate patterns with **Matplotlib**

Climate Change Analysis/ Java, JavaFX

[GitHub](#)

- Developed a Java Program to analyze & visualize weather patterns based on 10,000+ datapoints
- Generated graphical representation from probability distribution of weather patterns for future weather predictions

Spotify Playlist Generator | Python, Spotify API, Spotify Library

[GitHub](#)

- Developed a Python terminal-based application utilizing **Spotify API** to generate new curated playlists
- Implemented authentication & artist search with seamless integration within the Spotify application to import playlists

Minerva @MinneHack/ Mongo DB MERN Stack, Express.js, HTML/CSS, Google Maps API

[GitHub](#)

- Designed & Developed a Full Stack Webpage within a group of 4 in under 16 hours working as a PM & Front End Dev
- Utilized **Mongo DB MERN Stack** to organize data & collect information from inputs/interaction on website

Professional Development

Association for Computing Machinery – Active Member

Sept 2021 – Present

National Society of Black Engineers – Active Member

Sept 2022 – Present