

Rohan Kumar

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Education

University of Minnesota-Twin Cities

Expected Spring 2026

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

Minneapolis, MN

- **Coursework:** Data Structures & Algorithms, Software Development, Operating Systems, Database Systems, Machine Learning, Linear Algebra, Bioproducts & Biosystems Engineering, UI/UX Design, Human Computer Interaction
- **Activities:** ACM-W, Chess, Game Dev, Lettuce Club,

Skills

Languages: Python, Java, HTML/CSS, JavaScript, R, TypeScript, Node.js, Express.js, OCaml, SQL

Frameworks: Pandas, NumPy, Matplotlib, Scikit-learn, Junit, JavaFX, PyTorch, Pygame

Development Tools: Figma, MongoDB, Git, GitHub, Docker, Power BI, Unix/Linux, macOS, Windows, Qualtrics, Excel, Word

Experience

Computer Science Teaching Assistant

Aug. 2023 - Present

University of Minnesota- Twin Cities, Department of Computer Science & Engineering

Minneapolis, MN

- Assisted Professor by leading labs sessions, improving course material, grading projects, hosting office hours
- Troubleshooted issues in office hours, contribute to code reviews, & conduct review sessions
- Guided 200+ students in learning concepts for Software Development/Design, Data Structures, & Data Processing in Java

Bioproducts & Biosystems Engineering Teaching Assistant

Aug. 2023 - Present

University of Minnesota- Twin Cities, College of Computer Science & Engineering

Minneapolis, MN

- Collaborated with the Professor to expand the course materials ensuring clarity on assignments/projects
- Provided weekly feedback to 250+ students to help grasp topics in Bioproducts & Biosystems Engineering

Data Analyst Intern

May 2022 – Aug. 2022

University of Minnesota- Twin Cities, Undergraduate Office of Admissions

Minneapolis, MN

- Utilized **Pandas & NumPy** to analyze student data by identifying similarities to relieve backlog/improve data accuracy by **90%**
- Collaborated with the admissions committee to engage with target demographics aimed to enhance student diversity
- Operated in scrum teams working alongside system administrators to address backlog of **200,000+** student records
- Presented data & project updates to team members based on student records supporting admission decisions

Technical Projects

Climate Change Analysis | Java, JavaFX, JavaScript

Feb. 2023 – May 2023

- Developed a machine learning model to predict English Premier League match for chance of winning achieved 67.5% accuracy
- Performed data cleaning and processing, handling missing data, feature engineering, & converting data types
- Engineered key features such as rolling avg of team performance & venue statistics to improve prediction accuracy
- Utilized Random Forest classifier & optimized model by hyperparameter tuning/cross validation

Gopher Walk | Figma, Docker, GitHub, HTML, CSS

Jan. 2024 – May 2024

- Built a Mapping App aimed at enhancing **35,000+** user experiences by simulating optimal/intuitive U of M campus travel
- Conducted user research over a diverse group for comprehensive feedback via surveying (Google Forms, Qualtrics, & Interviews)
- Collaborated alongside 4 aspiring software engineers to iteratively integrate user feedback into design process via Agile Methods
- Utilized Figma & Docker as main software to streamline development ensuring design feasibilities

Minerva | Google Maps API, JavaScript, Node.js, Express.js, HTML5, CSS3, Docker

Jan. 2023 – Jan 2023

- Designed & developed a full-stack web application alongside 3 members serving as Product Manager & Front-End Developer
- Utilized the MongoDB MERN stack to organize & manage user data based on interaction on the website

Certifications

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

Professional Development

Association for Computing and Machinery Women

Sept. 2022 – Present

- Actively contributing to promote diversity & representation in tech,

National Society of Black Engineers

Sept. 2021 – Present

- Active participant contributing to NSBE's mission to promote STEM education & foster an inclusive future for all backgrounds

Bell Museum – U of M Twin Cities

Jun. 2018 – Present

- Devoted time to volunteer at the Bell Museum, sharing knowledge on space exploration/interplanetary discoveries