Rohan Kumar

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Education

University of Minnesota - Twin Cities   Sept 2021 - May 2025
Bachelor of Science in Computer Science and Data Science, Minor in Statistics   *GPA: 3.2/4.0*
- Activities: UMN Chess, App Dev, Video Game Dev, CodePath, National Society of Black Engineers, SHPE
- Relevant Coursework: Data Structures and Algorithms, Machine Architecture, Linear Algebra, Discrete Math, Probability & Statistics, Internet Programming, Computational Biology, Biosystems & Bioproducts Engineering

Technical Skills

Languages: Python, Java, JavaScript, HTML/CSS, R, x86 Assembly, C/C#
Technologies: Mongo DB, Node.js, JavaFX, Pandas, NumPy, Pygame, Git/GitHub
Certification: Cybersecurity (CodePath), Python (LinkedIn), Front End Development (LinkedIn)
Interests/Hobbies: Formula 1, Star Gazing, Tennis, Gardening, Developed a special Chicken Marination Sauce

Experience

Undergraduate Computer Science Teaching Assistant   Aug 2023 – Present
University of Minnesota- (CSE) Dept. of Computer Science & Engineering   *Minneapolis, MN*
- Collaborated/Assisted the main course instructor to refine course materials to ensure clarity on topics/projects/labs
- Conducted weekly lab sessions with 100 students to help grasp complex topics in **Software Dev/Data Structs & Algo**
- Mentored students 1 on 1 addressing students' questions on dense topics & guidance on coursework/study

Undergraduate Teaching Assistant   Aug 2023 – Present
University of Minnesota- College of Science & Engineering   *Minneapolis, MN*
- Collaborated/Assisted the main course instructor to refine course materials to ensure clarity on topics/projects
- Provided weekly feedback to 150+ students to help grasp complex topics in **Bioproducts & Biosystems Engineering**
- Mentored students 1 on 1 addressing students' clarification on topics & guidance on coursework

Computer Science Summer 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/projects engaging with SWE/Sys Admin
- Utilized Python libraries: **Pandas & NumPy** to analyze past student information to identify similarities & overlaps

Intern   Jun 2020 – Aug 2020
Genesys Works   *St. Paul, MN*
- Conducted thorough analysis by utilizing **Excel** to create weekly status reports & data analysis
- Operated in Agile Scrum Teams to design & present weekly PowerPoints for research & project developments

Projects

Rainfall Analysis/ *Java, JavaFX*   GitHub
- Developed a Java Program to visualize rainfall based on data collected over a specific duration
- Generated a graphical representation of the probability of rain by analyzing the data on various points

Spotify Playlist Generator / *Python, Spotify API, Spotify Library*   GitHub
- Developed a Python terminal-based application utilizing **Spotify API** & Library to generate playlists
- Implemented authentication & artist search with seamless integration with the Spotify platform

Minerva @MinneHack/ *Mongo DB MERN Stack, HTML/CSS, Google Maps API*   GitHub
- Designed & Developed a Full Stack Webpage under 16 hours
- Utilized **Mongo DB MERN** Stack to organize data & collect information from interaction on site

Student Data Validator / *Python, Pandas, NumPy*   GitHub
- Developed a Python to efficiently identify similar and irrelevant student records within large datasets
- Utilized Python libraries: **Pandas & NumPy** to analyze errors/comparisons in datasets containing 10,000+ entries

Mini-Projects | *Java | Python*
- Chess Game: Developed a terminal-based version of the classic Chess game, implemented all rules/functions   GitHub
- Doodle Jump Game: Developed a variation of Doodle Jump Game using Python & Pygame   GitHub

Leadership Experience

Science Olympiad Vice Captain   Sept 2019 – May 2020
Centennial Science Olympiad   *Circle Pines, MN*
- 1ST student at Centennial High School to be awarded at State Finals & Helped the team win *3rd in the State Finals*
- Led & Assisted teammates on design elements in CAD & wooden structures & won multiple Regional Awards