Rohan Kumar

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Education

University of Minnesota-Twin Cities   **Dec 2025**
Bachelor of Science in Computer Science   *Minneapolis, MN*
- <u>**Activities:**</u> ACM, Chess, Game Dev, Lettuce Club, Run club, Badminton, SASE, CodePath, NSBE, SHPE

Skills

Programming: Python, R, Java, HTML/CSS, JavaScript, C, C++, TypeScript, SQL
Frameworks & ML: Pandas, NumPy, Matplotlib, Scikit-learn, Seaborn, Predictive Modeling, Junit, JavaFX, PyTorch, Pygame
Data & Tools: Git, GitHub, Docker, Jira, Agile, Scrum, MongoDB, Docker, Unix/Linux, macOS, Windows
Design & Analytics: Figma, Power BI, Qualtrics, Excel, MS Office, Notion

Experience

Project Manager - Aerodynamics & Aviation Engagement Program   **Sep 2025 – Dec 2025**
Air Care Alliance   *Minneapolis, MN*
- Directed a multi-stakeholder initiative sponsored by Air Care Alliance, coordinating logistics for a 200+ engineering competition
- Managed end-to-end project lifecycle- risk mitigation, scheduling, budgeting, and vendor alignment- leading marketing & execution
- Collaborated with cross-functional teammates to integrate their deliverables into a unified event plan
- Post event analysis & reporting to maintain stakeholder alignment on objectives & measurable results

Computer Science Teaching Assistant   **Aug 2023 – Jun 2025**
University of Minnesota- Twin Cities | Department of Computer Science & Engineering   *Minneapolis, MN*
- Led weekly lab sessions for 200+ students in **Java** across Software Design/Testing, Data Structures, & Data Processing
- Built automated grading tools & refined rubrics, reduced repetitive regrade requests, improving course material & grading projects
- Troubleshot issues in office hours, contributed to code reviews, & conducted review sessions

Bioproducts & Biosystems Engineering Teaching Assistant   **Aug 2023 – Jun 2025**
University of Minnesota- Twin Cities | College of Science & Engineering   *Minneapolis, MN*
- Co-authored assignments & solutions to clarify expectations & reducing student confusion and faster turnaround
- Delivered weekly written feedback to 250+ students on 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 standardize backlog of **200,000+** student records, improving admissions data accuracy by **90%**
- Built Power BI dashboards to analyze applicant demographics across admissions, applicant funnel metrics, & year-to-year variance
- Partnered with cross functional teams in Agile sprints; presented weekly insights to stakeholders, working in **Scrum teams**

Technical Projects

EPL Predictor | *Python, Pandas, Scikit-learn, Matplotlib, Jupyter Notebook*   **Jun 2024 – Aug 2024**
- Developed machine learning models to predict English Premier League match outcomes- achieving a **67.5%** accuracy
- Built an end-to-end data pipeline including preprocessing, cleaning, and feature engineering for model training
- Trained & optimized a Random Forest model using rolling-performance features & hyperparameter tuning with cross validation

Gopher Walk | *Figma, Docker, GitHub, HTML, CSS*   **Jan 2024 – May 2024**
- Designed/developed a Mapping App to enhance **35,000+** user experiences by simulating intuitive way to travel the U of M campus
- Conducted user research over a diverse group for comprehensive feedback via surveying (Google Forms, Qualtrics, & Interviews)
- Coordinated closely with a cross functional team to iteratively integrate user feedback aligned with product via **Agile Methods**
- Utilized **Figma** & **Docker** to streamline development ensuring design feasibilities to meet stakeholder expectations

Minerva | *Google Maps API, JavaScript, Node.js, Express.js, HTML5, CSS3, Docker*   **Jan 2023 – Jan 2023**
- Led a team of 3 in the development of a full-stack web application, acting as both **Product Manager** & **Front-End Developer**
- Defined **product requirements**, managed **project timelines**, and coordinated **user testing** to refine features & enhance usability
- Utilized the **MongoDB** to organize user data & enable personalized experiences based on interaction analytics

Certifications

- Oracle Cloud Data Management & Google Project Management Professional Certificate

Professional Development

Association for Computing Machinery (ACM & ACM-W)   **Sep 2022 – Present**
- Actively participating in workshops on algorithmic efficiency, ethical computing, and large-scale systems