Krish Majumdar

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EDUCATION

Purdue University, College of Science — **West Lafayette, IN**
GPA: 3.79, Dean's List and Semester Honors Fall 2023, Spring 2024, Fall 2024 — **May 2027**
Major: BS Computer Science Honors, BS Mathematics
Relevant Courses:

- CS 30700: Software Engineering
- CS 25100: Data Structures and Algorithms
- CS 24000: Programming in C
- MA 35100: Linear Algebra

EXPERIENCE AND PROJECTS

Leaps (Centralized Trip Planning Application) Full-Stack Developer — **Jan 2025 - Present**

- Utilized full tech stack and Scrum Software Engineering methodology within team of five to develop a centralized application to streamline group travel logistics
- Integrated frontend interface in React/CSS with Node.js (Express) backend to handle server client connections and utilized PostgreSQL for database queries with various API's for dynamic data retrieval
- Optimized application with CI/CD pipelines to allow for continuous improvement and upward scaling to more users

Purdue MIND: Biomechanic Software Developer — **Jan 2025 - Present**

- Developed Arduino-based code to interpret data from 3 flex sensors and 2 EMG sensors to activate motors in response to finger movement for assistive hand device
- Collaborated with hardware team to design and test functional prototype aimed at aiding patients with muscular dystrophy by enabling motorized finger flexion

Purdue Autonomous Robotics Club (ARC): Software Lead — **Sep 2023 – May 2024**

- Successfully led three member software development team for project aiming to create autonomous chess game with robots as pieces
- Integrated advanced computer vision system using April Tags in OpenCV and Python to for real-time movement tracking of robots on the board

CS 18000 Final Project: — **Dec 2023**

- Collaborated with five person group to build server-based shopping marketplace GUI in Java
- Implemented multi-threading into marketplace, allowing multiple users to access GUI concurrently

Purdue Sports Analytics Club — **Aug 2023 – Dec 2023**

- Utilized R to analyze large sport analytics datasets
- Contributed to creation of predictive R model that take in college basketball data from previous year and each college's incoming players to predict upcoming years' college basketball rankings

SKILLS AND INTERESTS

- **Languages:** C, C++, Java, Python, R, JavaScript/CSS, Swift
- **Technical Skills:** Full-Stack, SQL, Arduino, Computer Vision (OpenCV), Git, Linux, OOP, CI/CD, Data Analytics in R
- **Personal Skills:** Analytical/Critical Thinking Problem Solving, Teamwork/Collaboration, Adaptability
- **Interests:** Autonomous Robotics, Machine Learning, App Development, Gaming, Basketball, Soccer

EXTRACURRICULARS

- Catapult AI Hackathon, ForestHacks Hackathon, Competitive Soccer, Retail Sales Associate, Volunteer Tutoring