Prakhar Mittal

(470)-815-8936 • prakhar@gatech.edu • prakharmittal.tech

EDUCATION

Georgia Institute of Technology, Atlanta, GA — **GPA: 4.00**
B.S. in Computer Science - Devices & Intelligence — *Aug 2020 - Dec 2023*

Courses: Data Structures & Algorithms, Object Oriented Programming, Data Visualization & Analysis, Design Patterns

EXPERIENCE

Drone Delivery Network — Atlanta, GA
Undergraduate Researcher - VIP Program — *Sep 2021 - Present*

- Building an Android app that displays the live location and ETA of delivery drones using the Google Maps SDK.

Track My Change — Berkeley, CA
Web Development Lead — *May 2021 - Present*

- Designed customized widgets to quantify and convey the impact of social organizations in the US and Nepal.
- Monitored user interaction using JavaScript: observed significant increase in donations and volunteer enrollment.

RoboJackets — Atlanta, GA
Software Developer — *Sep 2020 - Present*

- Implemented multi-scale template matching for an autonomous RC-car to detect road signs with 98.3% accuracy.
- Used a multi-threading approach to speed up the process. Written in C++ & OpenCV. Tested using ROS bag files.

LEADERSHIP

Node Computing Club, Robotics & Web Dev Leader — *Feb 2018 - Feb 2020*

- Developed and maintained websites for several clubs and events, primarily used Django with Heroku for PaaS.
- Organized hackathons with 800+ participants from North India, and introduced a new autonomous robotics event.

AC/DC Robotics, Software Lead — *Nov 2016 - Jan 2018*

- Spearheaded the design of a semi-autonomous robot capable of holonomic driving, and launching projectiles.
- Achieved precision control of drivetrain based on feedback from gyroscope, accelerometer, and motor encoders.
- Created a Java app in Android Studio for detecting colors from phone images, and IR-based distance sensing.

High Voltage Robotics, Co-Founder & Captain — *May 2015 - Nov 2016*

- Enabled robot to observe surroundings, detect, and sort objects, using PID control on ultrasonic & light sensors.
- International Runners-up at World Robot Olympiad 2016 (55+ countries).

PROJECTS

Juvenile Crime in India Visualization

- Analyzed government data on juvenile crime in India from 2001-10. Data transformed in Pandas & NumPy.
- Used k-means clustering in sk-learn to classify states by performance, and visualized trends in Seaborn & Plotly.

Odyssey Cryptic Hunt

- Designed a platform to host India's first quest-based cryptic hunt with 250+ participants and 10,000+ answers.
- Crafted the storylines and 20 elaborate puzzles employing interactive UI elements, steganography, and ciphers.

IdeateFX: Startup Ideation Tool

- Devised a JavaFX application that accelerates brainstorming and managing startup ideas based on feasibility.

HONORS

All India Secondary School Examination: Ranked 1st out of ~1.6 million students & received multiple scholarships.
International Olympiad in Linguistics: Ranked in top-25 in India & qualified to attend National Training Camp.

SKILLS

Software: Java, Python, C, C++, HTML, (S)CSS, JavaScript, SQL, OpenCV, NumPy, Pandas, Seaborn, Plotly, sk-learn
Tools: ROS, Arduino, Linux, Git, Docker, JetBrains, Jupyter, Slack, ClickUp, Trello, Web Hosting, Adobe XD