Kartikey Sharma
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EDUCATION

New York University   Brooklyn, NY
Master of Science in Computer Science   *Sept 2023 – May 2025*

Indian Institute of Technology Goa   Goa, India
Bachelor of Technology; GPA: 8.56/10.0   *Aug. 2019 – May. 2023*

EXPERIENCE

Skylark Drones   Bengaluru, India
Android Intern   *Jan 2023 - Feb 2023*

- Improved and implemented various features in the DMO (Drone Mission Ops) Pilot Android app.
- Integrated Zoom as a module in the app, enabling support for live streaming the drone feed.

MathWorks   Bengaluru, India
Software Development Intern   *June 2022 - Nov. 2022*

- Revamped the **Simulink Annotation Editor** by replacing the QtWebKit browser library with QtCEF, creating asynchronous threads in **C++ using OOAD**.
- Developed an interactive workflow in SLDV Toolbox for **automated test generation** and model coverage.

Blinkit   Gurugram, India
SDE Intern   *March 2022 - May 2022*

- Spearheaded the **code migration** of the consumer app from React Native to Native Android (Kotlin).
- Converted Blinkit's React Native widgets to Zomato's Kotlin Snippets in the UI transformation layer.
- Used MVVM Architecture in Kotlin and wrote clean and production-ready code with best practices.

Siemens CSR   Goa, India
Internship under Prof. Neha Karanjkar and Prof. Clint P. George

- **Android App**: Developed **WAGS**, an Android app to provide a central regulated animal database, allowing volunteers to contribute to stray animal welfare. [Site]
- **Backend**: Implemented a database using **Firebase** and created a REST API using MongoDB and Node.js

PROJECTS

- **Codeforces Visualizer**: App for visualizing user data and statistics to help coders in their contests.
- **Expense Tracker**: Tool to help a user manage their expenses and income in different categories in the form of plots.
- **GridViz**: Path visualization application for a 2D grid using a speed controller and graph algorithms.
- **Emojify**: Private chat application that uses sentiment analysis for inferring emotions from messages.
- **COVID SIR Modelling**: Model for predicting statistics of COVID-19 for South Carolina using ML and SIR concepts.

TECHNICAL SKILLS

- **Programming Languages**: C++, Java, Kotlin, Python, SQL, MATLAB, VHDL
- **Android Development**: Firebase, XML, Jetpack Compose, Google Maps, MVVM Architecture, Coroutines
- **Web Development**: HTML, CSS, JavaScript, React.js, Vue.js, Flask, Heroku
- **Data Science**: Pandas, NumPy, Matplotlib, Seaborn, Keras, Pytorch   **Tools**: Postman, Jira, Android Studio

ACHIEVEMENTS AND LEADERSHIP

- **ACM ICPC**: Secured AIR 44 (out of 5000 teams) with an Honorable Mention at Asia Kanpur Regionals in 2022
- **Google HashCode**: Secured Global Rank 512 (amongst 10,000+ teams) and College Rank 1 in 2022
- **Techgig Code Gladiators**: Global Finalist, securing a global rank of 15 (out of 140k+ participants)
- **IEEE IIT Goa**: Served as Vice-Chairman of IEEE IIT Goa Chapter, leading a team of 13