Md. Amir Ul Islam

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PROFILE STATEMENT

Dynamic Android Developer with expertise in Kotlin, Java, and Jetpack Compose. Skilled in building high-performance apps, integrating backend services, and optimizing user experiences. Proficient in Firebase, MongoDB, and AI-powered features. Passionate about scalable solutions, Linux-based development, and efficient workflows with Git and CLI tools.

EXPERIENCE

BRAC University Computer Club (BUCC)   **June 2024 – Present**
Project Lead   *Dhaka, Bangladesh*

- Mentoring team members by providing technical guidance and best practices in Android development.
- Collaborating to brainstorm, refine, and implement innovative features for the official BUCC mobile app.
- Overseeing project architecture, ensuring a structured development workflow, and reviewing code contributions.

TECHNICAL SKILLS

- **Programming Languages:** Kotlin, Java, Python, C++
- **Mobile Development:** Android Development, Jetpack Compose, Firebase, Retrofit, Room, RealmDB
- **AI & ML Tools:** Ultralytics, YOLO, LiteRT
- **Databases:** MongoDB, MySQL
- **Web Frameworks & Technologies:** MERN Stack, Django, Bootstrap
- **Operating Systems & Development Environments:** Arch Linux, CLI
- **Version Control & Collaboration:** Git, GitHub
- **IDEs & Tools:** Android Studio, VS Code, IntelliJ IDEA, Jupyter
- **Other Expertise:** REST API Development, PyQT5
- **Design Tools:** GIMP, Photoshop

EDUCATION

BRAC University   **July 2021 – Present**
Bachelor of Science in Computer Science, CGPA: 3.5   *Dhaka, Bangladesh*
Expected Graduation: May 2025

PROJECTS

BUCC Official Mobile App | *Kotlin, Jetpack Compose, Retrofit, Realm, FCM, Dagger-Hilt*

- Developing the official mobile application for BRAC University Computer Club.
- Implementing features for club event management, notifications, and member interaction.

BracuSocial | *Kotlin, Jetpack Compose, Realm, Firebase, Dagger-Hilt*

- Developed an online platform for BRACU students to find friends, manage schedules, and discover free rooms.
- Integrated Firebase for real-time data synchronization and user authentication.
- Web version available at bracusocial.vercel.app.

WallpaperWizard | *Kotlin, Jetpack Compose, Realm*

- Created an app for scheduling and managing home and lock screen wallpaper pairs.
- Implemented one-click setting and automatic reversion of wallpapers after schedule ends.

POTholeAI | *Kotlin, Jetpack Compose, LiteRT, YOLOv8*

- Developed a frontend mobile app for pothole detection using the YOLOv8n model.
- Integrated real-time object detection for road hazard identification.

Club Management System | *MERN Stack, WebRTC, socket.io*

- Built a club management platform with video call support for members.
- Implemented event scheduling and role-based access controls.

LEADERSHIP / EXTRACURRICULAR

BRAC University Computer Club   **Mar '24 – Dec '24**
Assistant Director of Research & Development   *Dhaka, Bangladesh*
- Led a team to overhaul the club's recruitment system, transitioning it to a fully digital platform.
- Collaborated with faculty and technical teams to integrate advanced technology into club operations.

BRAC University Computer Club   **Oct '23 – Mar '24**
Assistant Director of Finance   *Dhaka, Bangladesh*
- Managed the club's budget, ensuring effective allocation of financial resources for events and projects.
- Worked closely with team members to plan and prioritize financial needs for club activities.

INTERESTS

- Passionate about Android development and creating innovative mobile applications.
- Interested in integrating AI into desktop and mobile software to enhance user experiences.
- Enjoy playing games, exploring new gaming technologies, and improving problem-solving skills.
- Love traveling and experiencing new cultures and environments.