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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, JavaScript
- **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

Birshreshtha Noor Mohammad Public College

2020

Higher Secondary Certificate (HSC), GPA: 5.00

Peelkhana, Dhaka

Ideal School and College

2018

Secondary School Certificate (SSC), GPA: 5.00

Motijheel, Dhaka

PROJECTS

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

- Replaced scattered Messenger groups with a centralized platform, improving task management and internal communication.
- Implemented a role-based contact directory, granting Governing Body members access to relevant contacts while restricting higher-level access to Executive Body and Senior Executive members.
- Developed a seamless blog browsing experience, an efficient task management system and many more, improving club collaboration and engagement.

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

- Developed an offline class schedule planner, allowing users to plan several routines beforehand on the go.
- Enabled students to view friends' schedules, reducing daily inquiries and improving time management.
- Added features to find empty classrooms and labs, making campus resource utilization more efficient.
- Web version available at bracusocial.vercel.app.

WallpaperWizard | *Kotlin, Jetpack Compose, Realm*

- Eliminated the tedious process of manually changing wallpapers by enabling one-click application of preselected sets.
- Implemented scheduled wallpaper changes with automatic reversion to previous settings.

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 comprehensive club management platform that minimizes reliance on third-party communication tools.
- Integrated video calls, event scheduling, budgeting, and role-based access control to streamline operations.

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.

INTERESTS

- Passionate about exploring the Android OS, including custom ROMs and ROM porting, with hands-on experience in modifying and porting Android firmware.
- 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.