

BATOUL IBRAHIM

Beiruth, Lebanon

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SUMMARY

Dedicated and innovative programmer with a passion for crafting efficient, accessible, and scalable solutions to complex challenges. Skilled in Full-stack development, AI integration, and user-centric design. Committed to continuous learning, collaboration, and delivering impactful technological advancements that enhance accessibility and usability.

SKILLS

- **Programming Languages:** Java, C++, Python, JavaScript, PHP, HTML, CSS
 - **Frameworks & Tools:** Flutter, Django, Android Studio
 - **Concepts & Methodologies:** Object-Oriented Programming (OOP), WebSocket Communication, AI-powered Interfaces
 - **AI & Computer Vision:** Optical Character Recognition (OCR), Object Recognition, Scene Description, CLIP Model Integration
 - **Other Skills:** CRUD Applications, Real-time Processing, Accessibility Design
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EDUCATION

Lebanese International University (LIU) – Computer and Communications Engineering |

Al Mostapha High School – General Sciences

PROJECTS

Peekaboo Pal: An AI Companion for the Visually Impaired *(Flutter & Python)*

- Developed an AI-powered assistant specifically designed for visually impaired users, combining conversational AI with vision-based features such as object recognition, OCR, and scene description.
- Implemented minimal interface interaction for accessibility, integrating wake word recognition, real-time WebSocket communication, and camera-based vision processing.
- Introduced an innovative indoor localization technique using OpenAI's CLIP model to align visual inputs with semantic room labels.
- Enabled context-aware AI agent capabilities for tasks such as camera control and location inference.
- **Future scope:** dynamic localization & navigation, face recognition, and enhanced real-time processing.

Car Pooling Website *(HTML, CSS, JavaScript, PHP)*

Mobile Appointment App *(Java, Android Studio)*

Online Shop Website *(HTML, CSS, JavaScript, PHP)*

WORKSHOPS & TRAININGS

- **Digital Transformation Workshop** – Certificate of Attendance ○
Participated in a hands-on workshop hosted by **Riser Software** and **NERUOS**. ○ Built a **CRUD application** using Django as part of the training.
 - **League of Logics Workshop** – Certificate of Participation ○
Presented by Sami Shamseddine, hosted by the Computer Science Society at Phoenicia University.
 - **"QUABTUM AI" Webinar** – Certificate of Attendance ○ Hosted by IEEE PU Student Branch.
 - **Vanrise Solutions** - Web Developer Intern
08/2025 - 10/2025
During my internship, I developed a Phone Number Reservation website using a tech stack that included JavaScript, HTML5, CSS, Bootstrap, AngularJS, C#, and MSSQL, enhancing my skills in full-stack web development.
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LANGUAGES

- **Arabic** – Native
- **English** – Advanced
- **French** – Advanced