Ammar Yaser Babaset

Software Engineering — Open to Internships

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PROFESSIONAL SUMMARY

Software Engineering student experienced in building projects in computer vision and software development using Python, Java, and C/C++. Seeking a software engineering internship to apply development and problem-solving skills in real-world environments.

TECHNICAL SKILLS

- **Programming:** Python, Java, C, C++, SQL, R
- **Web Development:** HTML, CSS, JavaScript
- **Computer Vision:** OpenCV, MediaPipe, Gesture Recognition, Image Processing
- **Tools & Platforms:** Git, Linux, VS Code, RStudio
- **Engineering Practices:** Debugging, Version Control, Manual Testing, Agile Workflows
- **Languages:** Arabic, English

PROJECTS

BracketClick — Python, OpenCV, MediaPipe, JavaScript

- Built a computer vision–based photo booth that detects bracket hand gestures to trigger camera capture in real time.
- Implemented real-time hand tracking and gesture recognition using MediaPipe and OpenCV
- Designed intuitive UI/UX flow enabling browser navigation through finger gestures
- Improved frame processing performance to enable smooth real-time gesture detection.

KAUST Bioinformatics Expression Analysis — R, Python

- Analyzed differential gene expression on chromosome 20 comparing normal vs TDB protein samples
- Built reproducible analysis workflows in R and Python to detect significant biological patterns
- Validated statistical significance using established bioinformatics methodologies

Slide-Mind Flashcard Generator — Java

- Built a modular Java application generating interactive flashcards for learning
- Designed extensible architecture supporting future feature integration
- Implemented file I/O for persistent storage of generated content

Library Management System — C

- Developed console-based CRUD system for managing library book records
- Implemented file handling for reliable data persistence and retrieval
- Applied structured programming to produce maintainable and stable code

EXPERIENCE

Events Committee Co-Lead   Drone Club — University of Jeddah

- Co-led planning and execution of technical workshops and student events
- Coordinated logistics and cross-committee collaboration

Project Management Member (Project Reviewer)   Google Developer Groups (GDGCUJ)

- Reviewed student technical projects and provided feedback to improve quality and documentation

Website Testing Team Member   Business Incubator

- Validated website functionality and user flows through manual testing
- Reported bugs and usability issues to improve product quality

E-Commerce Store Manager   Online Store

- Managed order processing, inventory tracking, and customer request resolution
- Monitored sales metrics and ensured timely order fulfillment

EDUCATION

Bachelor of Software Engineering   **University of Jeddah**
Expected Graduation: 2027   GPA: 4.93 / 5.0

Bioinformatics Program   KAUST Academy — 2026

- Completed advanced training in bioinformatics and computational analysis
- Performed gene expression analysis using Python and R