

Ibrahim Mohamed

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EDUCATION

Ain Shams University <i>Bachelor of Computer Science</i>	Cairo, Egypt June 2026 (Expected)
• Relevant Courses: Analysis & Design of Algorithms, Data Structures, OOP, Databases, Artificial Intelligence, Technical Writing, Networks.	

EXPERIENCE

Founding Software Engineer <i>Pirates Company · Cairo, Egypt</i>	Oct. 2025 – Present
• Building and maintaining the core backend systems powering Ahoy's Enterprise Resource Planning platform (inventory, vendors, accounting, and factory operations).	
• Developing a separate e-commerce Orders system with its own backend and database, integrated with the ERP through clean service-to-service communication.	
• Implementing PostgreSQL schemas, business workflows, and production logic using FastAPI and Docker.	
• Deploying services on AWS using EC2, RDS, and S3 to ensure scalability and reliability.	
Software Contributor <i>Open Source · Remote</i>	Apr. 2025 – Oct. 2025
• Collaborated on improving accessibility for Synfig across Linux distributions using Bash scripts.	
• Contributed to discussions on maintainability, focusing on unit tests and documentation.	
• Actively contributed to open-source projects, ensuring seamless integration and system compatibility.	

PROJECTS

QuestBoard — Python, Flask, Docker, AWS — GitHub	Aug. 2025 – Sept. 2025
• Built a full-stack Flask app for weekly coding challenges with live leaderboard and REST API endpoints.	
• Implemented user authentication (JWT), submission upload/verification, and live scoring system.	
• Dockerized for deployment and integrated with AWS services.	
FOS (Faculty Operating System) — C, Assembly, GNU Toolchain, QEMU — GitHub	Sept. 2025 – Oct. 2025
• Developed a teaching OS implementing core components such as kernel, scheduler, and memory management.	
• Used QEMU for emulation and debugging; documented labs for students to explore OS internals.	
Data Communication Project — C#, TCP Sockets — GitHub	Feb. 2024 – Mar. 2024
• Built a client-server application with TCP socket messaging and protocol features.	
• Implemented connection handling, message framing, and error recovery.	
Speaker Identification — C#, WinForms, MFCC, DTW — GitHub	Apr. 2024 – May 2024
• Created a desktop app for speaker identification using MFCC feature extraction and DTW.	
• Built a UI for enrollment, testing, and real-time recognition.	

TECHNICAL & SOFT SKILLS

Programming Languages: Python, Go, TypeScript, Rust (basic), C/C++ (basic)
Databases: SQL, PostgreSQL, MySQL, Redis, MongoDB, Firebase
Tools & Technologies: Git, GitHub, GitHub Actions, Linux (WSL), Bash, Docker, Message Queues (Kafka), NestJS, AWS (EC2, ECS, Lambda, S3, RDS), CI/CD, Kubernetes, FastAPI, Flask, Gin (Go), Next.js, Axum (Rust)
Computer Science Concepts: Design Patterns, Data Structures, Algorithms, Networking, Operating Systems, OOP, Microservices Architecture, Unit testing, Integration testing, Load testing, System Design, SOLID principles
Soft Skills: Communication, Planning, Curiosity, Flexibility, Fast Learning, Teamwork, Reasoning, Taking Initiative
Languages: Arabic (Native), English (Intermediate)

EXTRA-CURRICULAR ACTIVITIES

acmASCIS Student Activity <i>Ain Shams University</i>	Dec. 2023 – Jan. 2025 Cairo, Egypt
• Completed Levels 1 and 2 in problem-solving using C++. Covered Optimization, Complexity Analysis, Number Theory, Data Structures, and Algorithms.	