Ahd Mamdouh

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EDUCATION

Galala University & Arizona State University
Dual Degree Program: B.S. in Computer Science (Galala), B.S. in Software Engineering (ASU)

Expected Graduation: June 2026   Cumulative GPA: 3.627

Relevant Coursework: Analysis & Design of Algorithms, Discrete Mathematics, Linear Algebra, Differential Equations, Database Systems, Computer Organization & Assembly, Software Engineering, Operating Systems, Computer Architecture, Digital Signal Processing, Distributed Systems, and Quantum Computing, Artificial Intelligence

SKILLS

Languages: C++, Java, Dart, JavaScript, HTML, CSS, ReactJS, NodeJS, SQL, Python
Frameworks & Tools: Figma, Git, Visual Studio Code, React Native
Concepts: UI/UX Design, Agile Development, OOP,
Soft Skills: Team Leadership, Communication, Time Management, Problem Solving, Adaptability, Collaboration, Critical Thinking

PROJECTS

ASU-GU Portal - Course Equivalency System — Node.js | Express.js | MySQL | Tailwind CSS

Developed a course equivalency management platform to streamline student transfers between Galala University and Arizona State University, featuring role-based access, batch uploads, and advanced filtering.

WellB - Diabetes Management App — React Native | Firebase | Node.js

Built a mobile app for diabetes management offering glucose tracking, medication reminders, and personalized dietary insights through cloud-based notifications.

Real-Time ASL Recognition System — Python | OpenCV | TensorFlow

Created a real-time American Sign Language translator using CNN and MediaPipe for gesture recognition, translating hand signs into text via an interactive GUI.

Hospital Management System — Node.js | Express.js | MySQL | HTML | CSS | JavaScript

Designed a hospital management system with role-based access, patient scheduling, pharmacy modules, and secure authentication to streamline hospital operations.

Blind Smart Stick System — C++ | Arduino | Ultrasonic Sensors

Engineered a smart stick using ultrasonic sensors, vibration motors, and buzzers to help visually impaired individuals detect obstacles in real time.

Advanced Smart Parking System — C++ | Arduino | Sensors | LCD

Implemented an automated parking system displaying real-time slot availability using IR sensors and servo motors to optimize parking efficiency.

Supermarket Management System — Java | SQL | GUI

Developed a desktop application for managing inventory, billing, and employee operations using OOP principles and a relational database.

Spell Check Application — Java | Data Structures | Binary Search Tree

Built a spell-check tool leveraging BSTs for fast lookup, detection, and correction of spelling errors to enhance text accuracy.

Airport Management System — Java | SQL | Database Design

Designed a comprehensive database-driven system to manage terminals, flight schedules, and passenger tracking, improving operational efficiency.

HACKATHONS & CHALLENGES

- Participated in local & online hackathons focused on AI, Web, and EdTech

EXTRACURRICULARS & LEADERSHIP

HR Leader – IEEE Galala University

Organized recruitment and onboarding processes, led team-building initiatives, and maintained internal communication for the IEEE student chapter.

Team Leader – Software Engineering Projects at GUTV Media Team Galala University

Led the development and implementation of digital solutions for GUTV's media operations. Coordinated with designers, developers, and content creators to deliver engaging tech-driven media tools.

Marketing Student Ambassador – Galala University

Represented the university in outreach events, helped manage student social media campaigns, and worked closely with the marketing team to promote student activities and programs.

INTERESTS

Web Development & UI/UX: Passionate about building responsive, accessible, and user-centered digital experiences

Tech & Innovation: Curious about AI-powered solutions, smart systems, and emerging web technologies

Problem Solving: Enjoy coding challenges, debugging, and creating real-world impact through tech

Leadership & Collaboration: Thrive in diverse team environments, mentoring peers and leading creative projects

Communication & Culture: Active in public speaking, cross-cultural teamwork, and student empowerment

Creative Expression: Follow tech-integrated fashion trends, digital painting, and UI aesthetics

Lifelong Learning: Committed to self-development through courses, hackathons, and tech communities