

Ahmed Hamdy

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Summary

Motivated Computer Science undergraduate at UTM with hands-on experience building production-ready applications including real-time analytics systems and academic management platforms. Combines strong technical skills in Java, Spring Boot, and full-stack development with a proven ability to deliver complete software solutions independently. Eager to contribute technical expertise and fresh problem-solving approaches to a dynamic software engineering team through a 6-month internship.

Education

Universiti Teknologi Malaysia (UTM)

Bachelor of Computer Science (Software Engineering)

Dean's List High Honors

CGPA: 3.68/4.00

Malaysia, JB

Expected Oct. 2026

Relevant Courses: Data Structures & Algorithms, Software Engineering, Quality Assurance

Technical Skills

Languages: Java, Python, C++, C#, JavaScript, Dart, HTML/CSS, Power BI

Frameworks: Spring Boot, PyTorch, TensorFlow, Flask, ASP.NET, React, Vue, Node.js, Flutter, Tailwind CSS, OpenCV, MediaPipe, Git/GitHub

Computer Vision ML: Object Detection Classification, Pose Estimation, Gesture Recognition

Databases: PostgreSQL, Firebase, MongoDB

Focus: Full-Stack Dev, Backend Systems, QA, Applied Computer Vision Deep Learning

Projects

Real-Time Analytics System (Microservice) | *Kafka, Flask, Java, Maven*

Jun. 2024 – Present

- Engineered a distributed real-time analytics system processing 1000+ system metrics per second using microservices architecture.
- Developed Apache Kafka data pipeline in Java with fault-tolerant message streaming and Zookeeper coordination.
- Built Flask REST API with custom endpoints serving real-time data to frontend dashboard with 99% uptime.
- Created interactive web dashboard using JavaScript, HTML, CSS, and AJAX with live charts and real-time updates.
- Deployed and coordinated services using Apache Kafka and Zookeeper, ensuring fault-tolerant data flow and high system resilience.

EduSync (MVC Architecture) | *Node.js, Express.js, Next.js, MongoDB*

Jun. 2024 – Nov. 2024

- Built a single-page academic management system enabling students and lecturers to manage timetables, tasks, file sharing, and profiles.
- Integrated **UTM API** for displaying academic data and used MongoDB as the NoSQL backend to model and manage structured collections for resources, users, and schedules.

WiseDose Mobile Application | *Flutter, Firebase*

May 2024 – Jul. 2024

- Built a mobile app for connecting patients with pharmacists, managing prescriptions, and sending medication reminders.
- Used **Firebase** for user data storage and chat, and integrated **Google Maps API** for locating nearby pharmacies.