

Najma Shakirah binti Shahrulzaman

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Profile

Computer Science student specializing in Data Engineering with strong academic record and hands-on experience in software development and machine learning. Proficient in Python, Java, SQL, and database management with demonstrated ability to build data pipelines and develop full-stack applications. Proven track record in customer service and team collaboration through work experience. Seeking opportunities to apply technical skills and problem-solving abilities in data engineering.

Education

UNIVERSITI TEKNOLOGI MALAYSIA

Bachelor in Computer Science (Data Engineering)

CGPA: 3.96

Skudai, Johor

2023 - Current

Expected Graduation: 2027

- Maintaining strong academic performance with consistent high grades across core subjects
- Relevant coursework: Data Structures & Algorithms, Database Systems, Software Engineering, Machine Learning, Cloud Computing
- Developed strong programming skills in C++, Python, Java, and SQL through hands-on projects
- Building solid foundation in problem-solving, system design, and software development

KOLEJ MATRIKULASI MELAKA

Physical Science (Computer Science, Chemistry, Physics, Mathematics)

CGPA: 3.98

Masjid Tanah, Melaka

2022-2023

- Achieved excellent academic standing with Dean's List recognition
- Built strong foundation in scientific principles, mathematical reasoning, and computational thinking

Projects

PPG Industries Inventory Analytics Pipeline | Course Project

- Designed and implemented an end-to-end data pipeline on Microsoft Azure using Medallion Architecture (Bronze, Silver, Gold layers) to detect inventory obsolescence for PPG Industries.
- Applied RA/MC business logic to flag slow-moving and obsolete stock, enabling data-driven procurement decisions.
- Built interactive Power BI dashboards to surface inventory insights for business stakeholders.
- Technologies: Azure Data Factory, Azure Data Lake, Databricks, Power BI

KADA Cooperative System | Course Project

- Developed web-based cooperative management system for KADA to digitalize membership applications, loan processing, and financial reporting.
- Designed system architecture and documented use case diagrams, sequence diagrams, and database schemas for core modules.
- Applied MVC architecture and Agile methodology, collaborated with team of 5 to create comprehensive system documentation

Overflow AI | KitaHack 2026

- Developed a mobile application to support Malaysian communities in flood disaster preparedness and response.
- Integrated Firebase backend, Gemini AI for intelligent recommendations, and multiple real-time data sources.
- Technologies: Flutter, Dart, Firebase, Gemini AI API

Activities

MULTIMEDIA UNIT, Code Rush '25

- Contributed to multimedia team for university coding competition, handled visual content and documentation.
- **Skills Developed:** Technical documentation, video editing, graphic design, and project collaboration.
- **Achievements:** Any notable achievements or leadership roles within the activity.

VOLUNTEER Green O Go Bin

- Participated in an environmental initiative promoting waste management and recycling on campus.
- **Skills Developed:** Community engagement, environmental awareness, teamwork, and social responsibility.
- **Achievements:** Helped promote campus sustainability and raised awareness about environmental issues.

VOLUNTEER Run For Unity

- Supported charity run event promoting community unity and wellness.
- **Skills Developed:** Event coordination, volunteer support, and community service.
- **Achievements:** Helped organize successful community events with strong turnout.

Certifications

- Microsoft Certified: Azure Fundamentals (AZ-900)
- AWS Cloud Foundations
- AWS Cloud Developing
- Alteryx Designer Core Certification

Skills

Technical Skills: Python, Java, C++, SQL, Database Management, Data Pipeline Development, Machine Learning, Microsoft Azure, Flutter, Firebase

Soft Skills: Problem-solving, Analytical Thinking, Team Collaboration, Communication, Time Management