

MUHAMMAD LUQMAN HAKIMI

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Python Backend Developer with a unique Chemical Engineering foundation, specializing in Django, Flask, and SQL to architect modular, scalable APIs for industrial web tools. Proven ability in system design, data analysis, and backend implementation, driving efficiency in process safety applications.

EDUCATION

Bachelor's Hons. of Chemical Engineering, | 2021 – 2025

University Technology MARA (UiTM), Shah Alam, Selangor

CGPA: 3.2

Relevant Coursework: Process Modelling (system analysis and logic), Numerical Methods (algorithms, computational problem-solving), Process Control (automation, system design), Process Simulation (software tools, data interpretation)

CERTIFICATIONS

- Python Essentials 1 – Cisco Networking Academy (Completed in Aug 2024): Core Python programming, scripting, and problem-solving for backend tasks.
- Python M1: Foundation – TalentLab (Completed Aug 2025): Developed Python data-processing scripts using Django/Pandas for efficient data manipulation and analysis in web applications.
- Data Visualisation & Power BI Training – LinkedIn/Microsoft (Completed in Mar 2024): Transformed complex engineering and safety data into intuitive dashboards and reports, enhancing data-driven decision-making for product and client applications.

Projects

Project Title: Meteorological Data Analysis & Reporting Engine

Technologies: Python, Django, Pandas, NumPy, REST APIs, Automation Documentation.

Year Created: 2025

- Engineered a Django backend to automate data ingestion from 2,000+ Iowa Environmental Mesonet stations, slashing manual collection time by 95% and providing real-time access to critical weather data.
- Built a Pandas/NumPy pipeline to clean, normalize and aggregate ASCII weather streams into features ready for risk and operations analysis.
- Automated Word report generation so engineering-grade weather reports could be produced in seconds instead of hours.

Project Title: Geospatial Web Mapping & Analytics Tool

Technologies: Python, Django, Pandas, NumPy, REST APIs, Automation Documentation.

Year Created: 2025

- Developed multi-source geocoding and POI search workflow, empowering engineers to rapidly locate industrial sites and nearby receptors and significantly reducing manual map lookup and coordinate entry
- Implemented synced 2D/3D hazard-zone mapping (circles, unions, distance math) to visualize impact radii and exposure areas that can plug into QRA and siting decisions.

WORK EXPERIENCE

Research Assistant | July 2024 – September 2025

University Technology Mara (UiTM) /Department of Chemical Engineering, Shah Alam, Selangor

- Architected and implemented the backend for a process safety website, leveraging Python and Django to reduce manual analysis and report generation time by 50-70% through optimized data processing and API design.
- Implemented reusable backend-style functions to automate process safety and hazardous chemical calculations, replacing spreadsheet-based workflows with faster, more consistent logic.

ACTIVITIES AND INVOLVEMENT

- Website Developer (RiskLynx) , UiTM (2025 – Present): Developed backend and data-processing features for a process safety web tool used by faculty and students.
- Programming/Simulation Tutor, UiTM (2023 – 2025) – Taught Python/MATLAB and simulation subjects, reinforcing core programming and numerical modelling skills.
- Aspen HYSYS/MATLAB Simulation Contributor, UiTM (2024 – 2025) – Supported 13+ final year projects with process and safety simulations, linking engineering models to data-driven decision making.

ACHIEVEMENTS

- Gold Medal For the Faculty of Chemical Engineering Innovation/Website Development (RiskLynx™), UiTM | 2025
- RiskLynx™ website is adopted at the faculty/industry level as a reusable tool for CIMAH/COMAH hazard studies | 2025

SKILLS

- Web Frameworks & APIs: Python, Django, Django REST Framework, Flask, REST APIs
- Front-end Fundamentals: HTML, CSS, JavaScript, React.js, Node
- Data & Analytics: Pandas, NumPy, SQL (MySQL, PostgreSQL)
- Data Visualisation: Power BI, Tableau
- Cloud & DevOps Tools: Docker, Google Cloud, AWS
- Controller: Git
- Operating Systems: Windows
- Languages: Malay, English