

NURUL ATIQA BINTI ABD BASHID

AI SOFTWARE ENGINEER

Penang, Malaysia

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My website:



PROFESSIONAL SUMMARY

Software Engineer with experience in industrial automation, AI, and intelligent software systems. Skilled in full stack web development using React and Next.js for end-to-end system implementation. Experienced in back-end development with Python, C++, and machine learning with hands-on experience developing data-driven applications and AI prototypes. Seeking engineering roles focused on scalable AI, automation, and intelligent software systems.

TECHNICAL SKILLS

Programming Languages	: C, C++, Python, TypeScript, C#
Web Development	: React, Next.js, Tailwind CSS, Javascript
AI & Data	: Scikit-learn, NumPy, Pandas, ML, Data Analysis, Gen AI, Agentic AI, Vertex AI, LLM
Industrial & Automation	: PLC Programming (Allen-Bradley RSLogix), FactoryTalk Studio Siemens Simatic, Beckhoff TwinCAT, Omron, Proface GP-Pro EX
Engineering Tools	: AutoCAD, SolidWorks, Proteus, FluidSIM
Other Tools	: Power BI, Microsoft Office

EDUCATION

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Bachelor of Engineering

Mechatronics Engineering with Honors

Grad Eng., Board of Engineers Malaysia

Malacca, Malaysia

Sep 2018 – April 2022

Cumulative GPA: 3.2/4.0

PROFESSIONAL EXPERIENCE

GAMUDA AI ACADEMY

AI Engineering Trainee

Petaling Jaya, Malaysia

Sep 2026 – Present

- Selected for Cohort 7, a competitive full-time AI engineering programme sponsored by Gamuda.
- Developed practical skills in AI/ML, Generative AI, Python, full-stack development and Google Cloud.
- Build collaborative AI solutions through hands-on projects and team-based capstone project.
- Applied software engineering and AI techniques to develop production-oriented solutions.

COHU MALAYSIA SDN. BHD.

Software Engineer (Development)

Malacca, Malaysia

May 2024 – Sep 2024

- Developed and troubleshoot control software for semiconductor machines, focusing on turret system functionality using proprietary programming languages.
- Modified and optimized machine control logic and man-machine interface (MMI) based on customer requirements using C# and C++.
- Delivered customized software solutions to meet client specifications, ensuring system reliability and operational performance.

GREATECH INTEGRATION (M) SDN. BHD.

Software Engineer

Penang, Malaysia

Feb 2023 – April 2024

- Developed and troubleshoot PLC ladder logic programs using Allen-Bradley RSLogix for industrial automation systems.
- Designed and implemented Human-Machine Interfaces (HMI) using FactoryTalk Studio and Proface GP-Pro EX.
- Supported on-site machine setup and commissioning, ensuring proper system functionality during FAT and SAT processes.
- Collaborated with electrical and mechanical engineers to diagnose system issues, test components, and implement solutions to improve machine reliability.

RELEVANT CERTIFICATION

AI AND MACHINE LEARNING – NEXPERT ACADEMY

Dec 2025 – Feb 2026

- Developed proficiency in Python for data processing and machine learning, building modular code and AI-driven applications through project-based learning on real-world datasets.
- Applied machine learning algorithms using scikit-learn, including feature extraction, model training, and performance evaluation for classification and regression tasks.

PROJECTS

MEDAGENT AI | Autonomous Healthcare Coordination System

May 2026 – Present

AI & Cybersecurity Healthcare Simulation Project – Finalist in Global AI Hackathon by Nexpert Academy

- Developed a multi-agent AI healthcare coordination system capable of autonomously analyzing healthcare datasets, identifying population risk levels, and recommending intervention strategies.
- Designed a modular multi-agent architecture for healthcare risk analysis, planning, and prediction workflows.
- Implemented sequential AI workflow pipelines where agent outputs dynamically informed downstream healthcare planning and outcome prediction processes.
- Built a functional web-based prototype demonstrating autonomous healthcare risk analysis, intervention planning, regional analytics visualization, and outcome simulation in real time.
- Integrated secure authentication and admin access management using Supabase to support controlled system access and future scalability considerations.

VERICOMM AI | Communication Risk Analyzer

Mar 2026 – Apr 2026

Phishing Email and URL Detection Project – League Champion for AI Hackathon by Nexpert Academy

- Developed a phishing email detection system using Natural Language Processing (NLP) and machine learning techniques, trained on datasets from Kaggle and Phishtank.
- Designed a hybrid detection pipeline combining rule-based keyword filtering with supervised ML classification to improve detection accuracy and reduce false positives.
- Performed data preprocessing including text cleaning, tokenization, and feature extraction (e.g., TF-IDF) to prepare unstructured email data for model training.
- Evaluated and compared model performance using standard classification metrics (accuracy, precision, recall), refining the model based on results.
- Built a functional prototype to demonstrate real-time classification of email inputs, showcasing practical application of the system.

DESIGN AND DEVELOPMENT OF WATER MONITORING STATION USING USV

Sep 2021 – Apr 2022

Final Year Project – Universiti Teknikal Malaysia Melaka

- Designed and developed a fully autonomous platform for water monitoring station as a USV that collects real-time data from the water sample and operates using the drone control system to control two brushless DC motors.

IOT BASED WEATHER MONITORING STATION

Mar 2020 – Jun 2020

Integrated Design Project

- Devised a portable platform for weather monitoring station that monitor real time data by implementing the use of IoT using the NodeRed interfacing with Blynk app for remote control to obtain 84% accurate readings.

LANGUAGE SKILLS

Malay – Native | English - Fluent (C1) | Turkish - Intermediate (B1)

REFERENCES

Rabiatul Adawiyah Binti Safiee
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