

MD AL-NAIM

+358 44 975 8920 ✉ mail@alnaim.dev 🔗 linkedin.com/in/md-al-naim/ 🌐 alnaim.dev

EDUCATION

Savonia University of Applied Sciences – Kuopio, Finland	September 2023 – Present
<i>Bachelor of Engineering, Information Technology (Internet of Things)</i>	<i>Kuopio</i>
BRAC University – Dhaka, Bangladesh	January 2021 – August 2023
<i>Bachelor of Science in Computer Science & Engineering (Completed 45 Credits)</i>	<i>Dhaka</i>

TECHNICAL SKILLS

Programming Languages: Python, C, JavaScript, SQL (MySQL)
Frameworks & Libraries: ROS, Flask, Flet, scikit-learn, XGBoost, SHAP, pandas, NumPy, Matplotlib
Tools & Technologies: Raspberry Pi, Arduino, UWB (Iiwari), Nokia 5G, REST APIs, TCP/Socket, Git/GitHub, Docker, Linux, HTML5/Canvas

WORK EXPERIENCE

Project Worker, IoT & Robotics	May – August 2025
<i>DigiCenter North Savo (Savonia UAS)</i>	<i>Kuopio</i>
<ul style="list-style-type: none">Achieved ± 25 cm accurate autonomous navigation with 10 Hz UWB + odometry fusion, ensuring smooth goal convergence in real-world trials.Delivered a live operator dashboard (Flask + Canvas) showing robot pose, path, and telemetry.Integrated AI obstacle detection over Nokia 5G with safe TCP pause/resume controls.Reduced operator workload and improved navigation reliability through automation.	

PROJECTS

UWB Indoor Autonomous Navigation — Flagship

Designed a **LiDAR-free navigation system** using floorplan A* pathfinding + Pure-Pursuit, achieving **reliable indoor robot navigation at 10 Hz** with web-based monitoring.

Tech: Python, ROS, Flask, UWB API, Odometry, TCP/Socket, Nokia 5G

Predicting Telecom Customer Churn with Explainable AI

Built an **explainable churn prediction model** (XGBoost, AUC ≈ 0.93) with SHAP insights, enabling targeted retention strategies and ROI simulations for telecom businesses.

Tech: Python, scikit-learn, XGBoost, SHAP, pandas, NumPy, Matplotlib

Recipe Studio — Local AI Recipe Generator (Flet + Ollama)

Developed a **desktop app that generates recipes 2–3× faster than manual search** using local AI (Ollama). Designed a distraction-free UI with robust parsing and error recovery.

Tech: Python, Flet, Ollama, JSON parsing/repair, UI/UX

EXTRACURRICULAR ACTIVITIES

Smart Agriculture Prototyping: IoT sensor nodes (DHT22, soil moisture) with basic cloud dashboards.

Tech Demos & Portfolio: Showcase robotics, AI, and IoT work through **demo projects and write-ups on my personal website** (due to NDA restrictions, source code is not public). Currently analysing the **SWaT (Secure Water Treatment) dataset** for anomaly detection research.

LANGUAGES

English: Fluent (C2) Finnish: Intermediate (A2) Bangla: Native

VOLUNTEERING

Onboarded international students to Savonia IoT labs (Python/Arduino basics, sensor wiring).

Ran community mini sessions on Python scripting and Arduino fundamentals.

References available upon request