

AMER SAAD

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LinkedIn · GitHub

SUMMARY

Software Engineer with a recent Master's degree in Electrical & Computer Engineering and strong foundations in software development. Experienced in Python, C++, and Java through academic and personal projects, including machine learning models, mobile applications, and network simulations. Seeking an early-career engineering role where technical versatility and strong fundamentals are valued.

EDUCATION

Lakehead University

Master of Science in Electrical and Computer Engineering

Thunder Bay, ON

Sep 2024 – Jan 2026

- Relevant Coursework: Computer Vision & Image Analysis, Applied Algebra & Probability, Agile Software Development, Quantum Computing.
- GPA: 81.90/100

Uskudar University

Bachelor of Science in Software Engineering

Istanbul, Turkey

Sep 2019 – Jul 2023

- Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Database Management Systems.
- GPA: 3.1/4.0

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, SQL.
- **Machine Learning:** PyTorch, Computer Vision (ResNet), NumPy, Pandas.
- **Development:** Flutter, Firebase, Git, Linux, Agile/Scrum.

PROJECTS

Hybrid Deep Learning for Noisy Label Classification | [Python, PyTorch]

- Implemented a ResNet-18 image classifier to handle noisy labels using the CIFAR-10N dataset, effectively managing imperfect data.
- Integrated a custom loss function combining neighbor-consistency regularization and sample reweighting, achieving up to 87.5% validation accuracy.
- Applied Contrastive Learning (SimCLR-style) to pre-train the model encoder, improving feature extraction capabilities.

Kibzar Marketplace App | [Flutter, Firebase]

- Built and deployed a cross-platform mobile marketplace application for iOS (Apple App Store) and Android (Google Play Store), actively used in North Cyprus.
- Structured the codebase using Clean Architecture principles and implemented Bloc for predictable state management.
- Developed core features including user authentication, real-time database interactions, and multi-language support (English, Arabic, Turkish).

Network Packet Scheduling Simulation | [C++, STL]

- Developed a discrete-event simulation in C++ to compare FIFO and Strict Priority Queuing (SPQ) packet scheduling algorithms.
- Implemented packet arrival logic and queue management using Standard Template Library (STL) data structures (queues, vectors).
- Analyzed system performance by measuring latency, packet loss, and buffer utilization under varying simulated traffic loads.

Smart Home Energy Management Prototype | [Python, JADE]

- Developed a multi-agent system prototype using the JADE framework to simulate peer-to-peer energy exchange.
- Integrated a basic LSTM model to forecast energy loads and implemented a transaction logging system for tracking energy exchanges.

EXPERIENCE

Al Rowad Series Contracting

IT Assistant (Intern)

Istanbul, Turkey

Aug 2022 – Oct 2022

- Assisted in migrating project data from legacy Excel files to a structured SQL database.
- Validated data accuracy during the migration process to ensure integrity for internal web systems.