

# AMER SAAD

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## SUMMARY

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Software Engineer with a Master's degree in Electrical & Computer Engineering and strong foundations in software development. Experienced in building and evaluating software systems across machine learning, networking, and distributed applications. Seeking an early-career engineering role where strong fundamentals and system-level thinking are valued.

## EDUCATION

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### Lakehead University

*Master of Science in Electrical and Computer Engineering*

GPA: 81.90/100

Thunder Bay, ON

Sep 2024 – Jan 2026

### Uskudar University

*Bachelor of Science in Software Engineering*

GPA: 3.1/4.0

Istanbul, Turkey

Sep 2019 – Jul 2023

## EXPERIENCE

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### Lakehead University

*Graduate Research Assistant (Applied Engineering)*

Thunder Bay, ON

Sep 2024 – Jan 2026

- Designed and evaluated software pipelines for data-driven systems under imperfect and noisy inputs, emphasizing robustness and fair experimental comparison.
- Built reproducible training and evaluation workflows, conducted controlled experiments, and analyzed performance trade-offs across alternative system designs.
- Developed a C/C++ discrete-event network simulation to evaluate packet scheduling behavior under congestion, measuring latency, utilization, and fairness.
- Collaborated in an Agile team environment on distributed systems, contributing to system architecture, evaluation, and technical documentation.

### AI Rowad Series Contracting

*Data Entry Assistant (Intern)*

Istanbul, Turkey

Aug 2022 – Oct 2022

- Assisted in migrating operational project data from legacy Excel-based workflows into a structured SQL database to improve consistency and accessibility.
- Performed data validation, cleanup, and integrity checks to ensure accuracy during migration and reduce downstream system errors.

## PROJECTS

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

- Implemented a ResNet-18 image classifier for learning under noisy supervision using the CIFAR-10N dataset.
- Integrated hybrid and structural learning strategies with contrastive pretraining to improve robustness and generalization.
- Achieved up to 87.5% validation accuracy under human label noise.

### Kibzar Marketplace App — App Store — Google Play | [Flutter, Firebase]

- Built and deployed a cross-platform mobile marketplace application for iOS and Android, actively used in North Cyprus.
- Applied Clean Architecture principles and Bloc state management to support scalability and maintainability.
- Implemented authentication, real-time database interactions, and multilingual support.

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

- Developed a discrete-event simulation to compare FIFO and Strict Priority Queuing under varying traffic loads.
- Measured latency, packet loss, and buffer utilization to analyze congestion behavior.

### Smart Home Energy Management System (Agile Project) | [Python, JADE, Agile/Scrum]

- Built a multi-agent Smart Home Energy Management System (SHEMS) using the JADE framework as part of an Agile development team.
- Applied Agile/Scrum practices (sprint planning, task tracking, iterative development) to design and refine system functionality.

## TECHNICAL SKILLS

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