

Lafi Alatawi

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WORK EXPERIENCE

TEACHING ASSISTANT

Tabuk University, Tabuk, SA

FAB 2021 – AUG 2022

- Assisted in teaching undergraduate courses in the Computer Engineering department.
- Supported the preparation and grading of assignments, exams, and course materials.
- Conducted workshops and provided academic support in both software and hardware topics.

Technical Support Specialist II

King Faisal Specialist Hospital and Research Centre, Riyadh, SA

NOV 2019 - JAN 2021

- Collaborated within a technical support team to diagnose and resolve IT issues.
- Performed system troubleshooting, analysis, and maintenance to ensure reliable operations.
- Provided timely support for hardware and software-related problems.

COMPUTER ENGINEER

Saudi Aramco, Yanbu, SA

JUN 2017 - AUG 2017

- Provided technical troubleshooting support in the Central Computer Room (CCR) of a natural gas liquids plant.
- Assisted in maintaining and monitoring critical computing systems and infrastructure.

PROJECTS

- **IoT Web Application:** Developed a scalable IoT solution using Java, MQTT, and RESTful APIs for backend communication, and React for an intuitive, real-time device management and data visualization frontend.
- **Machine Learning Models:** Designed and implemented predictive models leveraging object-oriented programming in C, C++, and Python, using the MNIST dataset for data preprocessing, training, and algorithm optimization.

EDUCATION

Purdue University, West Lafayette, IN

Jan2026 – Current

PhD in Electrical and Computer Engineering

Illinois Institute of Technology, Chicago, IL | GPA 3.78

Jan2024 – Dec 2025

Master of Science in Computer Engineering. I conducted research to optimize deep learning models for Wi-Fi-based sensing, focusing on enhancing performance and efficiency for deployment on IoT-based embedded systems in smart environments, security, and activity monitoring applications.

DePaul University, Chicago, IL

Sep 2022 – NOV 2023

English Language Academy. Completed an intensive academic English preparation program.

University of Tabuk, Tabuk, Saudi Arabia | GPA 3.85

Aug2013 – MAY 2018

Bachelor of Science in Computer Engineering. Designed and implemented an energy-efficient smart street lighting system using Arduino, LDR sensors, and transistors to dynamically adjust lighting.

SKILLS

- **TECHNOLOGY:** | IoT software development in Java, experience in other programming languages like C, C++, C#, Python, MATLAB, Data Science, and Machine Learning | PCB, Arduino, ESP32, and Raspberry Pi.
- **OTHERS:** Lecturing | Proficient in MS office suite | Solving problems | Time management.

HONORS & ACTIVITY

ALUMNI OUTREACH OFFICER

Tau Beta Pi – Engineering Honor Society, Chicago, IL

APR 2025 – DEC 2025

Coordinated alumni relations to strengthen professional and mentorship connections.

