

AMAN ABUELAYYAN

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PROFILE

Driven by a strong foundation in **Computer Systems Engineering**, I am seeking a **Computer Engineer** role where I can transform and transition a robust educational foundation to innovational solutions through programming and systems engineering.

PROFESSIONAL EXPERIENCE

Assistant Research & Teaching Engineer

Palestine Technical University - Kadoorie, Part-Time ☑

Oct 2025 – Present
Tulkarm, Palestine

- **Provided direct teaching assistance** and lab support for five sections with **110+ students** of Computer Programming Essentials (in C++), focusing on practical application, code debugging, and reinforcing fundamental programming concepts for university students.
- **Assisting the lead instructor** with curriculum preparation, material development, and grading lab assignments and quizzes, contributing to the effective delivery and assessment of the course content.
- **Guiding 60+ students** in Computer Networks Lab through network topology design and packet analysis using Cisco Packet Tracer to reinforce networking fundamentals.
- **Co-authoring the manual** for the **inaugural Linux Lab**, designing the first-ever curriculum for 60+ students on shell scripting, redirection, pipelining, and system administration.

Data Science & Machine Learning Engineering Intern

IBT Learning x GGateway, Part-Time ☑

Jan 2026 – Apr 2026
Remote, Palestine

- **Directed** a team of **5** to architect a multi-stage **Risk Scoring System** for Brazil's **largest** department store marketplace, integrating **XGBoost** classification and regression models to identify high-risk orders and estimate delay severity across **100k+ transactions**.
- Engineered a predictive pipeline using **Python** and **Scikit-learn**, leveraging geospatial Haversine distance and seller bottleneck metrics to achieve a **0.80 ROC-AUC** in flagging late deliveries despite an **11:1 class imbalance**.
- Spearheaded the data lifecycle from raw relational tables to a **55-feature** model-ready dataset, utilizing unsupervised clustering to segment sellers into operationally meaningful risk profiles to proactively manage at-risk orders.

IT & Network Infrastructure Engineering Intern

Oman Telecommunications Company | OmanTel, Full-Time ☑

Jul 2024 – Aug 2024
Muscat, Oman

- Streamlined operational workflows by developing **5+ UiPath RPA** bots and managing **10+ REST APIs**, and visualizing key performance metrics via **Power BI** dashboards.
- Redesigned **15+ FTTH** (Fiber to the Home) layouts for urban infrastructures, optimizing cable routing to **reduce** material costs by **12%** while leading a GIS-OSP software migration for a **50-user** technical team.
- **Enhanced organizational security and system reliability** by resolving **20+ critical CRM bottlenecks** and facilitating **10+ business requirement sessions** to align cybersecurity protocols with operational infrastructure needs.

PROJECTS

Unsupervised Movie Review Clustering ☑

Feb 2025

- **Architected an unsupervised NLP pipeline** to cluster IMDB reviews into 5 thematic categories using **K-Means**, **DBSCAN**, and **Agglomerative Clustering**.
- **Boosted Silhouette Score by 22%** by replacing TF-IDF with **Word2Vec embeddings**, significantly improving semantic capture in "Comparison" reviews.
- **Optimized feature extraction** via **PCA dimensionality reduction** and TF-IDF, validating cluster cohesion with **Calinski-Harabasz metrics**.

EDUCATION

B.Sc. in Computer Systems Engineering

Palestine Technical University - Kadoorie, Average: 88.9% ☑

Sep 2020 – Jul 2025
Tulkarm, Palestine

Relevant Courses: Software Engineering, Artificial Intelligence, and Machine Learning.

SKILLS

Programming Languages

Proficient in Python, SQL, and JavaScript.

Familiar with TypeScript, Java, C++, and Bash.

Frameworks and Libraries

Proficient in React, and SciKit-Learn.

Familiar with Angular, and PyCaret.

Tools

Proficient in Git, GitHub, Obsidian, Canva, Microsoft Office and Google Workspace.

Familiar with Figma, and Power BI.

Operating Systems

Linux, MS-DOS, and Windows.