ABDULLAH MISAR Software Engineering Student

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SUMMARY

Software Engineering student at the University of Jeddah with experience building backend systems, web applications, and data pipelines. Interested in software engineering, databases, and practical problem-solving.

EDUCATION

Bachelor of Software Engineering 2023 – Expected 2027
University of Jeddah GPA: 4.85 / 5
Relevant Coursework: Data Structures, Algorithms Analysis, Database Systems, Software Architecture, Human Computer Interaction

BIOINFORMATICS SPECIALIZATION 10/2025 – 02/2026
KAUST Academy – Bioinformatics Program Thuwal, Saudi Arabia
- Completed advanced training in bioinformatics concepts including genomics, transcriptomics, and biological data analysis.
- Gained hands-on experience using Linux-based bioinformatics pipelines and tools for sequencing data analysis.
- Worked with large biological datasets using Python-based data analysis tools.

Skills

Programming
Python, JavaScript, TypeScript, SQL, Java

Frontend & Frameworks
HTML, CSS, EJS, React, Next.js, Tailwind CSS, Framer Motion

Backend & APIs
Node.js, Express.js, REST APIs, PostgreSQL

Tools & Platforms
Git, GitHub, Linux / WSL, VS Code, Vercel, Railway, Cloudflare

Data & Bioinformatics
Pandas, NumPy, R, DESeq2, Salmon, FastQC

Languages
Arabic, English

PROJECTS

Mueenk– Hospital Prescription Refill System 12/2025 – Present
Node.js, Express.js, PostgreSQL, REST APIs, Railway, Cloudflare
- Developing a **prescription refill management system** requested by **King Abdulaziz Hospital** to streamline medication refill requests.
- Designing and implementing the **backend architecture using Node.js and Express**, including REST API endpoints for prescription processing.
- Building and optimizing the **PostgreSQL database schema** for storing patient requests and medication records.
- Collaborating within a development team to design system workflows and ensure reliability for real-world hospital use.
Live website: https://mueenk.com/ 🔗

TDP-43 Gene Knockout Transcriptomic Analysis (Chromosome 21) 02/2026 – 02/2026
Linux (WSL), Python, R, Salmon, DESeq2, FastQC
- Conducted a transcriptomic analysis comparing **TDP-43 knockout and wild-type samples** to study gene expression changes on **Human Chromosome 21**.
- Designed and executed a full **RNA-seq analysis pipeline** including quality control (FastQC), trimming (fastp), transcript quantification (Salmon), and differential expression analysis (DESeq2).
- Processed sequencing data in a **Linux-based environment (WSL)** and created visualizations for biological interpretation using **Python**.
- Identified differentially expressed genes including **TMPRSS3, COL6A1, and ADAMTS5**, highlighting potential regulatory effects of TDP-43 loss.

Film Reviews Website 07/2025 – 07/2025
Node.js, Express.js, EJS, CSS
- Developed a full-stack web application for displaying and browsing movie reviews.
- Implemented backend routing and server logic using Express.js.
- Built dynamic user interfaces using EJS templates.
- Designed responsive front-end layouts using HTML and CSS.
- Deployed the application online for public access.
Demo 🔗 Github 🔗

EXPERIENCE

Website Testing Contributor – UJ Innovate Platform 09/2025 – 10/2025
University of Jeddah
- Participated in the testing phase of the **UJ Innovate platform**, a university digital initiative.
- Conducted functional testing and identified **front-end and back-end issues**, contributing to improving system reliability prior to launch.
- Reported bugs and usability issues to the development team to support platform refinement.
- Received a **Certificate of Appreciation from the University of Jeddah** in recognition of contributions during the platform launch event.

Public Relations Co-Leader 10/2025 – Present
Google Developer Groups on Campus UJ
- Leading the PR team in organizing outreach and communication for technical events and workshops.
- Secured **three hosting partnerships** and coordinated collaborations supporting student technology initiatives.
- Recognized as **Leader of the Month** for contributions to GDG community initiatives.