SUMMARY

Data Analyst and Full Stack Software Engineer with expertise in Python, SQL, and data visualization, alongside experience in statistical analysis and reporting. With a strong foundation in mechanical engineering and a results-driven mindset, I bring exceptional problem-solving and communication skills. My background in operational leadership and quality assurance at Amazon equips me with hands-on experience in data-driven decision-making and process improvement. Passionate about leveraging data insights to drive efficiency and innovation.

PROFESSIONAL EXPERIENCE

Amazon | ICQA Process Assistant/Quality Assurance Specialist   May 2021 – present

- Leading the daily management of department duties, including allocating labor, leading meetings and assigning job duties.
- Tracking and reporting ATS labor hours; maintenance of hours and schedules.
- Participating and drive safety initiatives; Coach associates to always work safely.
- Training level1 Leads and providing converge for other department leaders.
- Interacting with property managers as needed to address concerns with service levels being provided.
- Observing deliveries in the field to identify barriers to first-time delivery success; recommend solutions and improvements to Amazon's systems and processes.

University of Guelph | Graduate Teaching/Research Assistant   Jan 2019 – Apr 2021

- Delivered lectures and workshops integrating statistical and computational tools to over 150 students.
- Evaluated students' performances on regular basis by designing assessment problems and grading their respective written reports, video reports, assignments, exams, and classroom activities.
- Provided coverage for Professors in lectures.
- Created visual reports for project progression, ensuring clear communication of complex data to colleagues and professors.
- Designed experimental setup for fluid research and published a research paper in the field.

KFUPM | Graduate Teaching/Research Assistant   Sep 2016 – Dec 2018

- Conducted data-driven research on liquid loading in gas wells, publishing two journal papers.
- Developed MATLAB simulations to analyze heat transfer and fluid flow, optimizing research outcomes.
- Presented findings to Saudi Aramco, influencing strategic research directions.

PROJECTS

WriteWell– GitHub | Demo | Live

A full-stack app that enables bloggers to share, edit, and delete blogs.
- Utilized MySQL as the database, which is deployed on AWS RDS.
- Built with Next.js and styled with SCSS, featuring a responsive design.
- Employed Next.js routing ability to construct endpoints for API requests.
- Used AWS S3 to save all images and linked it to the database.
- Being in-progress for responsive design.

Budget Tracker CLI – GitHub | Demo

A Python command-line application designed to help you manage your finances and track your expenses easily.
- Employed python scripts and functions and maintained DRY coding.
- Utilized SQLAlchemy for database management.
- Implemented the rich library for a user-friendly CL interface.

Portfolio – GitHub | Demo | Live

A digital showcase of my professional journey, highlighting my skills and projects.
- Employed Next.js with Tailwindcss to design the app as a single page.
- Incorporated interactive elements and animation using Framer motion.
- Maintained DRY coding following best practices in all the project files.

GPT-3 Intro – GitHub | Demo | Live

A landing page created to describe GPT-3 technology that provides a brief introduction about this modern AI technology.
- Built with ReactJS and CSS styling showcasing an appealing user experience.
- Utilized BEM (Block Element Modifier) technique to relate JSX elements to styling.
- Deployed JSON server as the backend server.

Mohammad El Prince

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SKILLS

Programming Languages
Python, SQL, JavaScript, MATLAB

Software Tools
Next.js/React.js – FastAPI – TailwindCSS

Back-end
Flask – FastAPI

Database Management
PostgreSQL – SQLite3 – MySQL

Other Tools
Excel – Git – Linux WSL

EDUCATION

Full-Stack Web Development Bootcamp
Flatiron School
Feb 23 – Oct 23

MEng. Mechanical Engineering
University of Guelph
GPA: 91% (Course-based)
Jan 19 – Feb 21

MSc. Mechanical Engineering
King Fahd University of Petroleum & Minerals
GPA: 3.95/4.00 (Thesis-based)
Sep 16 – Dec 18

BSc. Mechanical Engineering
King Fahd University of Petroleum & Minerals
GPA: 3.92/4.00
Jan 12 – May 16

LANGUAGES

Arabic (Native)
English (Professional)

INTERESTS

Chess – Tennis – Table Tennis – Soccer