Mohammad El Prince

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LinkedIn | Github | Portfolio

SOFTWARE DEVELOPMENT ENGINEER

Motivated Engineer with hands-on experience in JavaScript and Python, transitioning from mechanical engineering to software development. Skilled in building web applications, working with databases like MySQL, PostgreSQL, and Supabase, and collaborating effectively in Agile teams. Passionate about leveraging technology to solve complex challenges and continuously grow technical expertise.

TECHNICAL SKILLS

Programming languages/frameworks: JavaScript, Python, React, FastAPI, SQL, HTML, CSS, TailwindCSS, Sass
Databases: SQLite, PostgreSQL, MySQL
Tools: VS Code, Git, CLI, Postman, Linux WSL, Excel, AWS services, AWS CLI/SDK

TECHNICAL PROJECTS

YasMade - GitHub | Demo | Live
YasMade is a full-stack e-commerce platform that provides product browsing, shopping cart, secure checkout, admin dashboard, and blog/workshop content.
- Built with React (Vite) and styled with Tailwind CSS.
- Integrated Supabase for authentication, data management, and backend services.
- Implemented global state management using Zustand for cart and UI state.
- Designed with light/dark mode support and a custom Islamic-inspired UI theme.

WriteWell - GitHub | Demo | Live
WriteWell is a full-stack app that enables bloggers to share, edit, and delete blogs.
- Built with Next.js end-to-end and styled with Scss.
- Employed Next.js routing ability to construct endpoints for API requests.
- Utilized MySQL as the database, which is deployed on AWS RDS.
- Deployed images to AWS S3 and linked them to the database.

Budget Tracker CLI - GitHub | Demo
A command-line application designed to help you manage your finances and track your expenses easily.
- Coded python scripts and functions and maintained DRY coding
- Imported SQLAlchemy for database management.
- Implemented the rich library for a user-friendly CL interface.

RECENT PROFESSIONAL EXPERIENCE

Amazon, Multiple Locations (Hamilton, St. Thomas, London, Mississauga, ON)   05/2021 - Present
Data Analyst
- Building Python scripts, SQL queries, frontend apps, and dashboards to support operations decisions.
- Researching warehouse quality defects and identified root causes for process improvements
- Delivered data-driven solutions with cross-functional teams to improve efficiency.

Field Quality Assurance
- Completed daily delivery routes using GPS and maintained accurate access and delivery records.
- Partnered with property managers and dispatch to resolve delivery issues and improve first-time success.
- Performed on-road audits and provided feedback to enhance service quality and operational efficiency.

Process Assistant (Operations Lead)
- Managed 50+ Associates across Amazon Robotics (AR) floor and inventory workstations.
- Monitored the health of four Amazon Robotics floors for optimal productivity and safe operation.
- Guided Associates for an optimized performance resulting in 10% improvement in the AR floor health.

EDUCATION

Amazon Web Services – AWS Certified Cloud Practitioner   07/2025

Flatiron School   02/2023 - 10/2023
Full Stack Web Development, Python and JavaScript online program

University of Guelph, Guelph, ON   01/2019 – 02/2021
Master of Engineering — Mechanical Engineering (course-based)

King Fahd University of Petroleum and Minerals, Dhahran, KSA
Master of Science — Mechanical Engineering (Thesis-based)   09/2016 – 12/2018
Bachelor of Science — Mechanical Engineering (course-based)   01/2012 – 05/2016