OMAR ALSHANYOUR

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Education

Concordia University   Sep. 2021 – May 2025
Bachelor of Engineering in Software Engineering   *Montreal, QC*

Experience

Intact   September 2024 -
DevOps   *Montreal, QC*
- Oversee and deploy services and release versions, investigate and address issues, and manage environments across different platforms, and tools.
- Develop and set up CI pipelines using Jenkins to automate build, test, and deployment processes, improving software delivery efficiency for 10+ projects.
- Develop Python, Groovy, and Bash scripts to automate environment setup and monitoring, enhancing operational efficiency.

Core Competencies: CI/CD, Jenkins, Python, Groovy, Kubernetes, Linux, ArgoCD, Docker, and Ansible

Hydro-Québec   August 2022 – December 2022
Cybersecurity Developer Intern   *Montreal, QC*
- Automated PowerBI reports generation using SAP security logs, reducing incident report time by 60%, enhancing operational efficiency.
- Optimized report presentation and accuracy through R script, increasing user satisfaction up to 90%, confirmed by team survey.
- Worked with SIEMs, security log and event management on cloud infrastructure to keep track of state of security, reporting on SAP systems.

Core Competencies: PowerBI (DAX), Power Query (M Formula Language), Windows PowerShell, Agile development

Projects

Sportganise (Onibad) | *React, Vite, Spring Boot, AWS S3, PostgreSQL, Docker, JUnit*   **2025**
- Led full-stack development of a web and mobile app for Accès Badminton, enabling event registration, user management, and real-time scheduling for coaches and players.
- Designed and implemented a scalable PostgreSQL database schema to support user profiles, training sessions, and multi-role access control.
- Deployed the application using Docker and AWS EC2, enabling automated, reliable deployments with GitHub Actions CI/CD and minimal downtime.

Multilingual Subtitle Generator | *Python, Hugging Face Transformers, and PyTorch*   **2025**
- Fine-tuned the Whisper-small model on the Common Voice French dataset to transcribe and translate foreign-language audio into timestamped English subtitles (.srt format).
- Handled full pipeline: dataset preprocessing, forced alignment of segments, GPU training on Colab, and generation of human-readable subtitles from raw model output.
- Implemented performance tracking using WER (Word Error Rate) and experimented with hyperparameter tuning to improve accuracy.

Discord Music Bot | *Go, Discord API, and YouTube API*   **2024**
- Developed a Discord music bot using Go, leveraging the ytdl and dca libraries for audio processing and playback, and integrated with the YouTube API for video search and retrieval.
- Implemented a feature to search and play music from YouTube based on user input, by having the bot join voice channels and stream audio directly.

Condo Management Systems | *TypeScript, React, React Native, and Express.js*   **2024**
- Led development team for SOEN390 team design project, creating comprehensive software solution for condominium management encompassing web application and mobile app.
- Designed and implemented UI of main features including user profiles, property management, and financial system, reservation system to streamline condominium management processes and enhance user experience..

Technical Skills

Languages: Java, Python, JavaScript, Go, SQL, and HTML/CSS
Frameworks: React.js, Express.js, Node.js, AngularJS, Spring Boot, React Native, JUnit, NumPy, and Pandas
Technologies: Git, Linux, Dockers/Containers, Jenkins, GitLab, ArgoCD, Kubernetes, Ansible and AWS.