Arkkan El-Khatib

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Professional Summary

Software Engineer with 10 years of programming experience and nearly 3 years of industry experience in web application development. Expertise in full-stack development, with additional knowledge in CI/CD pipelines, cloud-based deployments, web design, and search-engine optimization. A proactive learner passionate about creating innovative solutions and dealing with technical challenges.

Experience

Self-Employed – *Freelance Developer – Toronto, Ontario*

Jan 2025 – Present

- Designed and developed modern, responsive websites for a small businesses, enhancing user experience and optimizing site engagement through SEO best practices.
- Built a custom analytics tool to process historical customer order data and sales trends, enabling smarter inventory planning and reducing supply overstock and understock scenarios

Agriculture and Agri-Food Canada – *Programmer Analyst – Ottawa, Ontario*

Aug 2024 – Nov 2024

- Designed proof-of-concept solutions using Microsoft Power Platform, C#, and JavaScript, showcasing early technical demonstrations for a SharePoint On-Premises migration project.
- Gathered and documented stakeholder requirements for project planning and execution.

Agriculture and Agri-Food Canada – *Web Developer – Ottawa, Ontario*

May 2021 – Dec 2021 and May 2022 – Aug 2023

- Automated data migration using a Python CLI tool, leveraging APIs, HTTP requests, and database calls to ensure seamless transition with minimal technical debt working with micro-services.
- Debugged and optimized CI/CD pipelines for MS Azure and GitHub, improving operational efficiency and reducing manual review time.
- Enhanced Java Spring Boot applications by integrating new features, fixing bugs, and implementing stakeholder requests using libraries like Hibernate ORM, JSP, ReactJS, and AngularJS.

Carleton University – *Teaching Assistant – Ottawa, Ontario*

Jan 2021 – Apr 2021

- Delivered tutorials and office hours for programming and documentation tools (Python, Java, LaTeX), ensuring students mastered course material.
- Utilized Discord for interactive learning, conducting practical demonstrations and answering student queries effectively.

Technical Skills

- Front-End Development
- Web API Scripting
- Unit Testing
- Back-End Development
- Proof of Concept Scaffolding
- Stress Testing
- Database Scripting
- Technical Demonstrations
- Integration Testing

Education

Bachelor of Computer Science – Software Engineering Focus (Co-op)

Carleton University – Ottawa, Ontario

Graduated: April 2024 – With High Distinction – GPA: 3.81

- Completed a co-operative education program with hands-on industry experience
- Specialized in software design, development, and project lifecycle management

Projects

Final Fantasy Data Repository

Automated data extraction and organization of Final Fantasy game information into .csv and coding notebooks hosted on Kaggle.com, an open-source repository for data and data-related code

- Automated data extraction using the Pandas and NumPy open-source libraries and Python scripting for data-cleaning
- Ease of development through modular development using the Jupyter Notebook/Jupyter Lab development environment

Technologies: *Python, NumPy, Pandas, Jupyter Notebook*

Octopath Team Builder

Golang library and ReactJS/TypeScript web application for team planning in Octopath Traveler 1 and 2.

- Designed a Dockerized web application deployed on Google Cloud Platform with PostgreSQL for persistent storage.
- Integrated game data to allow users to plan optimal teams, simplifying resource management for Octopath Traveler 1 and 2.

Technologies: *Go, ReactJS, TypeScript, PostgreSQL, Docker, Google Cloud Platform, CI/CD*

Python AI Upscaler Web Application

AI-powered image upscaling platform with side-by-side comparison capabilities.

- Created a Flask-based web application that allows users to upload images for AI-based upscaling using the Super-Image Python library.
- Architected a microservices-based backend with RabbitMQ for communication, MongoDB for temporary image storage with Docker and Kubernetes for scalable deployments.

Technologies: *Python, Flask, Super-Image (Python Library), RabbitMQ, Docker, Kubernetes, MongoDB*