Arkkan El-Khatib

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EDUCATION

Carleton University — Ottawa, ON
Bachelor of Computer Science - Software Engineering Stream - Co-op - GPA: 3.81 — *Sep. 2019 – Apr. 2024*

EXPERIENCE

Software Developer & AI Quality Assurance — Jan 2025 – Present
Self-Employed — *Toronto, ON*

- Designed and deployed multiple SEO-optimized full-stack web apps using React and FastAPI, hosted on Google Cloud with Dockerized containers
- Created inventory and logistics automation tools for local businesses, improving data tracking and order efficiency
- Evaluated generative AI models for coherence, safety, and accuracy; provided structured feedback and labeling to improve model outputs across iterative releases

Programmer Analyst — Aug. 2024 – Nov. 2024
Agriculture and Agri-Food Canada — *Ottawa, ON*

- Collaborated with stakeholders to assess technical feasibility of a proposed internal workflow platform
- Created working prototypes using Microsoft Power Apps, Power Automate, and Power BI to model internal tooling workflows and dashboards
- Delivered onboarding documentation and walkthroughs to support long-term handover to internal IT teams
- Helped evaluate Power Platform usage limitations for enterprise-scale deployment

Java & Python Web Developer — May 2022 – Aug. 2023
Agriculture and Agri-Food Canada — *Ottawa, ON*

- Developed a Python tool to reverse-engineer database exports into a proprietary format, reducing reliance on legacy tools and enabling automated data retrieval
- Maintained a Spring Boot and React-based web application, resolving user-reported bugs and enhancing UI responsiveness
- Led data migration planning by building a custom Excel-to-Python mapping tool for internal teams
- Implemented JMeter-based stress testing for high-traffic endpoints and built integration tests into the CI pipeline using GitHub Actions and Azure DevOps
- Troubleshot and optimized CI/CD pipelines, reducing build errors and shortening deployment times

Java & Python Web Developer — May 2021 – Dec. 2021
Agriculture and Agri-Food Canada — *Ottawa, ON*

- Worked on modernizing internal web applications by upgrading front-end components in React and Angular
- Wrote JUnit tests and refactored Java Spring Boot backend services to improve maintainability and test coverage
- Used Redmine to manage client tickets, triage bugs, and prioritize development work
- Authored Python scripts to export user data in custom formats and communicate with proprietary APIs
- Created technical and user-facing documentation in ASCIIDoc, supporting long-term maintainability and training

Teaching Assistant - COMP 1805 (Discrete Structures I) — Jan. 2021 – Apr. 2021
Carleton University — *Ottawa, ON*

- Led bi-weekly tutorials covering key programming and algorithm concepts for over a large number students
- Provided in-depth grading feedback and held office hours to assist students with labs and assignments
- Coordinated with course instructors to identify learning gaps and provide supplemental teaching

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, Go, C#, SQL (MySQL, PostgreSQL, SQLite, Oracle DB), NoSQL (Mongo DB)
Frameworks & Libraries: React, Angular, Vue, Spring Boot, Flask, Django, FastAPI, Node.js, Express, JUnit, SQLAlchemy, Tailwind, Bootstrap, Material-UI
Tools & Platforms: Git, Docker, Kubernetes, GCP, Azure, Power Apps, Power BI, GitHub Actions, JMeter
Data & Scripting: pandas, NumPy, Matplotlib, REST APIs, LaTeX