Sarah Shakim

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TECHNICAL SKILLS

Languages: Java, Python, C#, SQL, JavaScript, HTML, CSS, TypeScript, Rust, MATLAB, C/C++
Frameworks: React, Node.js, Flask, Angular, Material-UI, FastAPI, REST API, .NET
Developer Tools: Git, Linux, Snowflake, SSMS, VS Code, Visual Studio, PowerBI, Figma, Kubernetes
Libraries: pandas, NumPy, Matplotlib, Tkinter, TensoFlow, OpenCV, GoogleAPI, scikit-learn, NLTK

EXPERIENCE

AMD   **June 2024 – Present**
Software System Designer   Markham, ON
- Built an AI-driven test case validation app in Python leveraging OpenAI, enabling automated detection of ambiguous test steps and reducing delivery cycle time by 25%
- Designed scalable data pipelines and dashboards using SQL and PowerBI that provided actionable insights across teams, including an AI adoption tracker now used company-wide by leadership
- Architected and executed the migration from SQL Server to Snowflake, achieving 80% faster query performance and enabling scalable, cloud-native analytics and reporting

AMD   **May 2023 – Aug 2023**
Machine Learning / Data Analytics Specialist   Markham, ON
- Developed a Python NLP model leveraging semantic embeddings and cosine similarity to identify similar projects from textual descriptions, improving cross-team visibility and knowledge sharing
- Engineered a dynamic Angular front-end for a company-wide AI Portal, centralizing access to course materials, Q&A, and AI events for improved user engagement
- Unified release data into an interactive PowerBI report, accelerating the executive decision-making process by an average of 25%

BMO   **Jan 2023 – Apr 2023**
Software Developer Analyst   Toronto, ON
- Revamped existing React app using Redux to track overtime hours worked, enabling resource balancing for 3,000+ employees
- Automated financial trend reporting in PowerBI, boosting efficiency by 40% which improved productivity, user experience, and simplified processes across the financial department
- Delivered technical support and business analysis to the Business & Clients Analytics team, enabling data driven models and insights that guided critical strategic decisions

AMD   **Sept 2021 – Apr 2022**
Web Developer   Markham, ON
- Engineered an automated ticketing app with JavaScript, React, and C#, enabling self-service defect categorization and reducing manual effort by 98%
- Built a modular Python library with OOP to automate the ingestion, cleansing and storage of web server logs into a SQL relational database, supporting large-scale trend detection and analytics
- Developed a Python/Flask validation tool to process CSV inputs, detect errors and render results in an interactive UI, decreasing validation time by 94%

Cinchy   **Jan 2021 – Apr 2021**
Automation Developer   Toronto, ON

EDUCATION

University of Waterloo   **Sept 2019 – Apr 2024**
Bachelor of Applied Science, Nanotechnology Engineering   Waterloo, ON

PROJECTS

AirBoard
- Built a Python computer vision app using OpenCV, Tkinter, and MediaPipe, enabling gesture-based cursor control
- Developed an algorithm to stabilize noise from human and computer vision errors
- Collaborated with teammates to deliver a fully functional project within 24 hours