

Armstrong Foundjem

Data Scientist/Engineer

 /in/foundjem

 foundjem

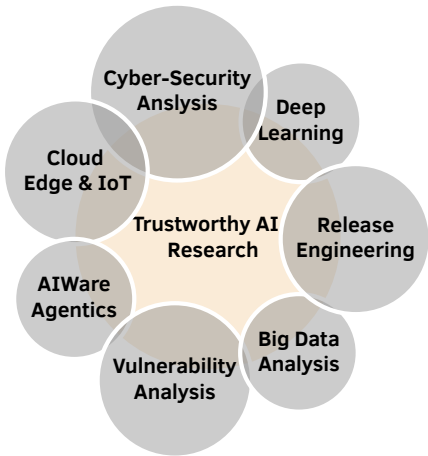
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 foundjem

 gScholar


Skills




Tools




TensorFlow Keras Torch NLTK
Gensim Pandas Numpy Scipy
NetworkX Scikit-learn Spark




Wireshark Nmap sysdig Recon-ng
PyCrypto pwntools Faker



MySQL SQL Elastic-Search Full-Stack
MongoDB NodeJS PHP

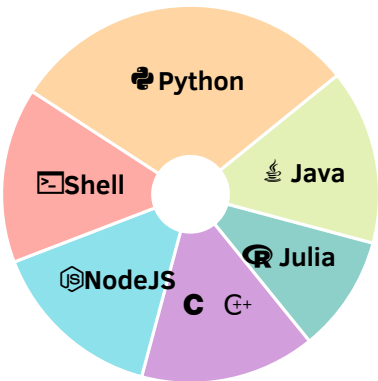


Matplotlib Seaborn ggplot Plotly
D3js Tableau Networkx Plots.jl



git Gerrit K8s AWS Azure
OpenStack Actions MLOps

Coding



Interests



Experience

2021 – ...

Consultant — Data Scientist

9480-2808 QUEBEC INC.

- Implementing comprehensive sustainability strategies within organizations and incorporating AI solutions, achieving a 10% increase in operational efficiency and a 15% reduction in carbon footprint.
- Providing expert guidance and comprehensive evaluations of existing software ecosystems to identify sustainability gaps and recommending actionable objectives aligned with industry best practices and the UN SDG.
- Advocating sustainable practices in developing AIWare Agentic solutions and engaging in industry conferences and professional networks.

2022 – 2024

Software Research Fellow

DEEL Project, Polytechnique Montreal

- Collaborating on a cutting-edge research initiative between France and Quebec focused on certifying safety-critical AI systems, ensuring compliance with air transport industry standards, and enhancing system reliability.
- Improving the reliability and robustness of ML-based systems in the aviation industry and contributing to advancements frameworks to ensure the trustworthiness of such safety-critical AI systems.
- Mentoring and guiding Ph.D. and MSc students and authoring research and technical papers in empirical software engineering and applied ML research.
- Facilitated collaborative workshops and seminars to disseminate knowledge on AI system certification processes and reliability engineering, bridging gaps between research and industry.

2023 – ...

Lead Research Engineer

MLCommons & Masakhane Collaboration

- Developing an AI Safety Benchmark for Sub-Saharan African Languages.
- Creating scoring rubrics to assess/benchmark low-resource languages.

Education

2018 - 2022

Ph.D in Computing

Queen's University

Software Ecosystem Sustainability, a Socio-Technical Perspective

2015 - 2017

M.A.Sc., Data Science

Polytechnique Montreal

Improving the Reliability of Live Migration Operations in Clouds

2012 – 2015

BSc., Computer Science

uBishops

with Co-op

Projects - Software Engineering

2024 - 2025

Multi-Agent RAG for Security Threat Assessment

DEEL

- Boosting security threat assessment accuracy by combining insights from multiple sources into a single analysis pipeline.
- Using graphical network-based visualizations to analyze and understand relationships among different exploits.

2015 –

Software Release Engineer

OpenInfra Foundation

As a core release team member, I coordinate cross-functional teams to ensure the delivery of polished, high-quality products throughout the release cycle. I actively participate in weekly code reviews, volunteer initiatives, and ecosystem maintenance activities. My efforts consistently drive improvements in product quality and enhance the overall user experience.

2022

Certifications

(1) Vector Institute, (2) IVADO – Mila

- (1) Machine Learning: 1st prize winner of the Capstone project in Applied ML
- (2) Deep Learning: Applied Computer Vision