

Ariel Paulin

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Technical Skills

Languages: Scala, Java, Python, SQL, JavaScript, C#, C++, C, Assembly (ARM)

Technologies: Akka, Spark, Kafka, Flink, Play Framework, React, Node.js

Developer Tools: Git, IntelliJ, Eclipse, AWS, Azure, Docker, Jenkins

Experience

Senior Software Developer

CNH Industrial

Mar 2023 – Present

Toronto, Ontario (Remote)

- Develop and improve data pipelines for ingesting and enriching live field equipment data
- Optimize batch jobs and enhance data analytics workflows using Databricks notebooks
- Create APIs for downstream teams to leverage functionalities and insights from the enriched data
- Utilize Scala, Spark, Apache Flink and Azure to build robust solutions for data processing
- Support production code during on-call rotations, ensuring smooth operations and timely issue resolution
- Enhanced system observability by adding Prometheus metrics and creating dashboards to monitor key pipeline performance indicators

Senior Software Developer

DataPassports

Jul 2020 – Dec 2022

Toronto, Ontario (Remote)

- Enhanced a Scala-based Spark application with a cross-functional team, improving performance and scalability
- Implemented a multi-stage pipeline with data models and TensorFlow on SQL tables for entity recognition
- Optimized API workflows with Kafka and Spark Streaming, achieving 20x better processing performance
- Developed token-based authentication for Azure SQL using Azure Active Directory to improve security
- Worked with senior leadership to design and deliver new feature sets aligned with client needs

Scala Developer

AwareAds

Jun 2019 – Jul 2020

Toronto, Ontario

- Acted as the lead Scala developer of the Real-Time Bidding Platform (RTB)
- Conducted engineering analysis of all services and compiled a formal report in \LaTeX
- Redesigned and implemented all backend microservices using the Play Framework
- Built an AdExchange simulator for stress testing infrastructure and simulating the RTB environment

Play Developer

Publicis Sapient

Oct 2018 – Apr 2019

Toronto, Ontario

- Engineered features for Walmart.ca's checkout flow using Play Framework to enhance user experience
- Collaborated with a cross-functional team to integrate third-party services, ensuring seamless functionality
- Deployed and maintained services using Jenkins and Walmart internal tools, ensuring reliability

Software Developer

AppDirect

Jan 2017 – Apr 2017 | Sep 2017 – Dec 2017

Montréal, Québec

- Designed and implemented a Scala microservice to communicate with external APIs
- Built scalable, fault-tolerant functionality using Akka, Akka-HTTP, Scalaz, and Play Framework
- Integrated a Redis instance for efficient storage of temporary user data and asynchronous workflows
- Optimized the internal ticketing system UI using React, Redux, and Axios, improving usability and productivity

Education

University of Waterloo

BASc. Computer Engineering

Waterloo, Ontario

Sep 2013 – Apr 2018