

Ariel Paulin

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Summary

- Extensive experience with Scala and Java, building scalable and performant backend services
- Past exposure to JavaScript (React & Redux), Node and Python for web development projects
- Academic background in C#, C++, C, and Assembly fostering an understanding of fundamentals
- Proficient in project management tools (e.g., Jira) and version control systems (e.g., Git)
- Familiarity with Agile and Kanban development lifecycles, collaborating with teams of all sizes

Experience

Senior Software Developer | CNH Industrial

Toronto, Ontario (Remote)

GEO SPATIAL SERVICE TEAM

March 2023 - Present

- Collaborate with a distributed team of 20 developers and 20-30 QA professionals in the USA, Ukraine, and India
- Develop and improve data pipelines for ingesting and enriching live field equipment data
- Create APIs for downstream teams to leverage functionalities and insights from the enriched data
- Utilize Scala, Spark, Apache Flink, HBase, and Geomesa to build robust solutions for data processing
- Participate in on-call rotations, providing support for code running in production, ensuring smooth operations and timely issue resolution

Senior Software Developer | DataPassports

Toronto, Ontario (Remote)

TRUST SERVICES

July 2020 - Dec 2022

- Worked alongside a team of 5-7 developers, 3-5 QA, and 2-3 DevOps personnel on a Scala-based Spark application
- Designed and built new features to run a multi-stage pipeline of data models and TensorFlow models against SQL tables for entity recognition
- Implemented a new API workflow with Kafka & Spark Streaming to achieve 20x improvement in performance
- Developed a new feature to allow token-based authentication with Azure SQL using Azure Active Directory
- Collaborated with senior leadership to develop and implement new feature sets based on client needs

Scala Developer | AwareAds

Toronto, Ontario

BIDEXO PROJECT

Jun 2019 - July 2020

- 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
- Created new suites of tests using ScalaTest and various scripts for data transformation

(Contractor) Play Developer | Publicis Sapient

Toronto, Ontario

CHECKOUT TEAM

Oct 2018 - Apr 2019

- Worked with a team of 5-7 developers on the checkout flow of Walmart.ca
- Created new end-user functionality via the Play Framework (Scala)
- Developed new features with other third-party vendors
- Deployed services into environments using Jenkins and Walmart internal integration tools
- Created new suites of tests using ScalaTest and assisted in the refactoring of existing automated tests

Software Developer | AppDirect

Montréal, Québec

PLATFORM TEAM - APPHELP

Jan 2017 - Apr 2017

Sept 2017 - Dec 2017

- Developed a new Scala-based microservice to handle communication with an external API
- Built all functionality using Akka, Akka-HTTP, Scalaz, and Play Framework
- Integrated a Redis instance to store both temporary user data and asynchronous data
- Deployed the service into production incorporating ScalaTest suite and SaltStack using TeamCity
- Developed UI for the internal ticketing system using React, Redux, and Axios
- Created new suites of tests using Jest and Enzyme

Software Engineering | Sears Holdings Corp.

Hoffman Estates, Illinois

CART & CHECKOUT TEAM

May 2016 - Aug 2016

- Worked with senior staff to design and architect a project tracking and management tool
- Spearheaded development of a web application using ReactJS and Node.js
- Integrated Bootstrap, Reflux, and Express into an ongoing project

Software Designer | Nokia

Ottawa, Ontario

SAM NSP TEAM

Aug 2015 - Dec 2015

- Designed and built server-side functionality for enterprise software
- Implemented new features using Spring Framework, Jersey Framework, and Apache Commons
- Wrote logic for importing, parsing, manipulating, and exporting application data
- Developed a comprehensive list of JUnit tests to ensure product functionality

Education

University of Waterloo

Waterloo, Ontario

BASC. COMPUTER ENGINEERING

Sept. 2013 - Apr. 2018