Ariel Paulin

COMPUTER ENGINEERING

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Summary _

- Experience with Scala, Java, Python, JavaScript (React & Redux), HTML, CSS, C#, C++, C, SQL, VHDL and Assembly
- Proficient in project tracking, version control and continuous integration technologies (e.g., JIRA, Git, TeamCity)
- Software development lifecycle experience (i.e., Agile, Kanban) with both large and small development teams
- Development experience on Linux, Windows and Mac OS environments

Experience _

Senior Software Developer | DataPassports

Toronto, Ontario (Remote)

TRUST SERVICES

July. 2020 - Current

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

Scala Developer | AwareAds

Toronto, Ontario

Jun. 2019 - July. 2020

- Acting lead Scala developer of Real-Time Bidding Platform (RTB)
 - Conducted engineering analysis of all services and compiled formal report in LTFX
 - Redesigned and implemented all backend microservices using the Play Framework
 - Built AdExchange simulator for stress testing infrastructure and simulating RTB environment
 - Created new suites of tests using ScalaTest and various scripts for data transformation

(Contractor) Play Developer | Publicis Sapient

Toronto, Ontario

Снескоит Теам

BIDEXO PROJECT

Oct. 2018 - Apr. 2019

- Worked with team of 5-7 developers on checkout flow of Walmart.ca
- Created new end-user functionality via Play Framework (Scala)
- Developed new features with other third party vendors
- Deployed service into environments using Jenkins, OneOps and Walmart internal integration tools
- Created new suite 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 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 service into production incorporating ScalaTest suite and SaltStack using TeamCity
- Developed UI for internal ticketing system using React, Redux & Axios
- Created new suite of tests using Jest & Enzyme

Software Engineering | Sears Holdings Corp.

CART & CHECKOUT TEAM

Hoffman Estates, Illinois

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

Aug. 2015 - Dec. 2015

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

Software Developer | IBM Canada

Ottawa, Ontario

Jan. 2015 - Apr. 2015

RIVERSIDE SOFTWARE LAB (COGNOS TM1)

- Collaborated with team of 20-25 developers on enterprise software (i.e. Cognos TM1 Analytics)
- Implemented new functionality using HTML, CSS and JQuery for beta release
- Developed suite of automated tests that were deployed by integrating Jenkins and Selenium
- Assisted in the discovery and remediation of software bugs

Technical Systems Integrator | Bell Canada

Toronto, Ontario

IP INNOVATIONS LAB

May. 2014 - Aug. 2014

- Performed data analysis and conducted laboratory experiments
- Worked closely with senior team members, technology subject matter experts, network operations, and vendors to develop new services
- Certified new carrier grade router and infrastructure for various TCP/IP protocols (e.g., IS-IS, OSPF, MPLS, BFD, BGP, Multicast)

Projects _

C Based OS Programming

 UNIX based multiprocess and multithreaded programs using common design practices (e.g., IPC, Semaphores, Mutexes)

Embedded C Programming

 Firmware level software on Altera DE2 FPGA board which made use of LCD, Line Out and SD Card Reader

Assembly Software Design (ARM)

 Morse code converter and reaction timer using 32-bit ARM Cortex-M3 microcontroller

Eye Tracking Analytics Software

• Web frontend in React for aggregating and viewing data from mobile eye tracking software

Education

University of Waterloo

Waterloo, Ontario

BASC, COMPUTER ENGINEERING

Sept. 2013 - Apr. 2018