Benoît **JEAUROND**

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Software Engineer with an interest in low-level technologies, mobile, and Al

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(4)	EXPERIENCE —	
	ack Software Developer Bell Canada	Ottawa, ON
Brougand UFacilit	ht a new near real-time email phishing analysis platform to production analyzing emails, on the second production analyzing emails, on the second production analyzing emails, on the second production and the second production	
	Detection Specialist Bell Canada ——————————————————————————————————	Ottawa, ON
Built nmanaMigraSetupElastia	ed on Windows Sysmon, Netflow, and email machine learning models using PySpark and Conultiple TypeScript React web applications to ease jobs of threat analysts, such as a platfologe indicators of compromise, get enriched data, and be able to create dynamic rules ted Python app to Rust using Axum/Tonic with testing and achieved a 100x performance in real time alerting with ElastAlert alongside Python scripts correlating data from various so esearch, Impala, S3, REST APIs) to several destinations (email, wiki, messaging platform, Kaflaged ELK (Elasticsearch, Logstash, Kibana) stack ecosystem and created related Kibana vis	rm to mprovement ources (Kafka, ka, Logstash)
	rre Developer Cision Canada ——————————————————————————————————	Ottawa, ON
— Develo — Addeo — Creato — Auton	oped Java features and fixed bugs related to Elasticsearch news article and social medial features to internal Apache Kafka tools, such as an interactive UI and SSL support ed process to deploy application streams to QA and production Spring Cloud Dataflow (SC nated SCDF stream updates, application registration and deployment, as well as Docker in agement in AWS Elastic Container Registry from Atlassian Bamboo	CDF)
	re Developer Innovation, Science and Economic Development Canada —— Dec 2020	Ottawa, ON
ImpleImpro	oped features for a work social media platform in JavaScript using React with an express.j mented Jest testing, SwaggerUl documentation, and multilingual database structure for th ved stability and performance of the overall application by cleaning up the whole codeba ed Github Actions and Openshift/Kubernetes templates for server deployments with Jenk	ne backend Ise
	re Developer Ario Platform ————————————————————————————————————	Ottawa, ON
ImproWorke	oped features for the platform in Ruby on Rails and Angular using Test Driven Developmer ved performance and security of file downloads and uploads of the platform related to Av ed on a encrypted file transfer and database attributes in Ruby and Ruby on Rails respectived background jobs to make asynchronous processes, that were previously synchronous	VS S3
	re Developer Innovation, Science and Economic Development Canada —— Apr 2019	Ottawa, ON
DevelopmentIntegrAdded	oped a React Native application to ease the time management for students ated Google Calendar as our calendar/events database and used it to compare scheduled Firebase to send notifications between users and to collect information about the users ated the CI/CD for our application with CircleCI (building, testing, linting, and deployment)	es

Bachelor of Applied Science, Software Engineering (CO-OP) | University of Ottawa CGPA: 9.47/10

Earned the Chancellor's Scholarship, Dean's Excellence, and Award Nortel Founding Scholarship for the SITE

CAPSTONE PROJECT

Developed for **Bell Canada** a pre-ransomware detection Python service using **machine learning** with **PySpark** Random Forests, receiving Sysmon logs from Kafka, and monitoring with a mix of Grafana, Kibana, and Jaeger

ENGINEERING TEAMS

Member of uOttawa's Robobat Team for **3 years**, was the **team and software lead** leading meetings, organizing tasks, following up with members, and working on my assigned tasks. Also, worked on image detection of buoys using ROS, OpenCV, and Tensorflow in Python.

Member of <u>uOttawa's Mars Rover Team</u>, worked on organizing the software team using my background from Roboboat, created React dashboard to monitor and control the rover using ROSLib.js, and integrated IMU in the map generation

HACKATHONS

Organized and volunteered at the CANDEV data challenge for Statistics Canada

Attended two **uOttaHack** Hackathons, creating a mobile game with OpenGL and mobile hospital kiosk applications using Firebase



- PROJECTS

INDICATOR AGGREGATOR 🚱 portfolio 🗘 Github

Programmed a centralized platform for requesting data from various information sources in real-time with **Rust** and **TypeScript** having a React frontend and an Axum/Rust REST backend API

Supports Rust, **Python**, and **JavaScript** as sources, with the latter two being dynamically created while all having the ability for rate-limiting, caching, block lists, background tasks, secret management

EMAIL THING

Programmed a **real-time email analysis** web application using a monolith **Rust** backend which correlates data with <u>Indicator Aggregator</u> allowing for performant ingestion (~50ms) and stats about ingested emails

REQWEST UI Reportfolio Github

Built a simple Tauri-based HTTP client with a React frontend in TypeScript and a Rust backend with request

DRAW AWAY

Built a real-time drawing game, similar to Jackbox, with a **Rust** backend, a **React Native** and **React** frontend Created two **open source** NPM packages, an <u>inspection tool</u> to debug front-end state management Recoil.js library and a data-driven SVG based <u>React Native drawing component</u>

· Deployed using horizontally scalable backend microservices on Kubernetes in DigitalOcean

CLUE NOTES Sportfolio Github

Created 7MB React Native application deployed in the Google Play Store for users to take notes of their game

CAT FEEDER portfolio

Developed a React Native application interfacing with Firebase and Arduino controlling a cat feeder

REACT NATIVE VISUAL SCRIPTING
portfolio

Developed a fast **Rust** based React Native project creator, converting data to functioning React Native mobile application (including React components and React Navigation screens and navigators)

References available upon request