

SUMMARY OF QUALIFICATIONS

Experience includes developing and deploying enterprise level line of business applications, both for stand-alone apps and for the web. A quick summary of skills includes:

- **Full-stack** design, implementation and deployment of **distributed services** in **Java, Scala, Python, C#,** and **NodeJS** for backend. **React** and **Angular** on the frontend.
- **Observability** of distributed systems using industry leading tools like **Datadog** and **Rollbar**. Working experience with **Nagios** and **Lightstep**.
- Scripting languages such as **Bash** and **Powershell**.
- Cloud and on-prem infrastructure engineering. Working knowledge of **Haproxy, Nginx,** and **Kubernetes**.

EDUCATION

UWO – University of Western Ontario

Master of Engineering in Software Engineering.

UNIRP – Centro Universitario de Rio Preto

Bachelor Degree in Computer Science.

RELEVANT EXPERIENCE

Software Engineer, Twilio

San Francisco, California – November 2018 to present.

Worked on the Messaging Channels team, specifically on the WhatsApp For Business product offering. Contributions include:

- Planned, designed and implemented a Message Templating system for spam control that allows for businesses to submit message bodies for pre-approval before initiating conversations with customers.
- Designed and implemented both backend and frontend customer-facing functionality.
- Designed and implemented internal tools for onboarding new customers in the product offering.
- Worked on steady-state hardening of the custom-built infrastructure for running WhatsApp containers in kubernetes.
- Implemented metrics and dashboards that enabled the observability of the system in real time.
- Languages used for backend dev: Scala, Java and Python. Frontend tech: React.

Software Engineer, Microsoft Corporation

Mountain View, California – October 2015 to August 2018.

Worked on the PowerPoint team with multiple responsibilities. Contributions include:

- Worked on the backend engineering feature crew that implemented a continuous integration system using a custom made large-scale hybrid Cloud/OnPrem infrastructure to build, validate, package and ship various versions of PowerPoint (Win32, mobile and android).
- Worked on the feature crew that shipped Slideshow Narration Recording as a built-in product feature, previously only available through the Office Mix plugin.
- Worked on the feature crew that shipped several accessibility features throughout the product.

Software Engineer, ZTR Control Systems

London, Ontario – September 2014 to September 2015.

Worked with a team of 8 engineers to design and implement a multi-tenant, cloud based data ingestion and reporting system for IoT based vehicle telemetry data. It was implemented in three parts:

- A back-end data ingestion system for receiving telemetry data from fleets of vehicles from hundreds of ZTR customers. The system processed over 20 million incoming data points per week. Written in **C#** for both data

ingestion and processing, used **Redis** as a message queue for reliability, **Cassandra** for short term storage and **PostgreSQL** for long term storage after data aggregation.

- A Rest API for access to customer data. This API was designed with multi-tenancy at its core, allowing customers to access their data securely using a custom-built Service Token System.
- The front-end was an **AngularJS** based **ASP.NET** reporting application that provided near-real time reports on customer vehicle fleets.

Research Assistant, CSTAR (Canadian Surgical Technologies & Advanced Robotics)

London, Ontario – August 2013 to September 2014.

- Development of robotic medical devices and tools for minimally invasive arthroscopy surgery.
- Implemented the architecture, modules and coding standards for ongoing grad student projects. This made it easier for less programming-savvy students and researchers to write software faster by plugging in re-usable modules to their systems.
- Wrote **custom API** wrappers to abstract complex logic from sensor and actuator APIs into easier to use interfaces per the CSTAR requirements.

Software Development Engineer, IBM

Hortolandia, Sao Paulo — July 2007 to December 2012.

- Worked on the AT&T account as lead developer for an application that aggregates customer billing data from several other applications which are part of the AT&T Universal Billing Platform, providing users a single point of control to modify/transform and ship data to these other applications. I was also part of the team that migrated a platform called Service Assembly from older technologies into the **Microsoft .NET framework** software stack.
- Worked on the Sotheby's Realty account as lead engineer/developer of their main **website** and internal **content management system**. In this project, I was also the tech lead for a team of 6 practitioners located in both **Brazil and India**, coordinating the work between teams and reporting to the customer in **New Jersey**.
- At the Itaú account I was part of the development team that created a process workflow application used by that banking institution to control order requests from their clients.