# Maxime St-Onge Amoretti Software Developer

\kappa maxamoretti.com 🌎 github.com/Maxime-SA 🔀 maxime.stongea@gmail.com

### **EXPERIENCE**

## **Software Developer & Co-Creator,** Otter (otter-framework.dev) □

Nov 2022 - present

Otter is an open-source, cloud native framework that enables peer-to-peer video communication within web applications.

- Engineered an auto-scaling serverless infrastructure on AWS to enable WebRTC functionality within web applications (HTTP/WebSocket API Gateways, Lambda functions, ECS with Fargate, and DynamoDB).
- Wrote a CLI tool to automate the provisioning and teardown of AWS cloud infrastructure (IaC) saving developers over 100 steps.
- Developed a React frontend application for private 1-on-1 meetings hosted by Otter (CloudFront with S3 Bucket), offering low latency audio/video communication, instant messaging, and file sharing.
- Containerized and deployed CoTURN, an open-source implementation of STUN/TURN protocols, in an ECS cluster with Fargate to support Otter's P2P connectivity.
- Built a simple API for developers to integrate Otter's functionality within their web applications.
- Secured HTTP/WebSocket API Gateways by using an API key and JSON Web Tokens.
- Optimized Otter by reducing the number of reads to DynamoDB resulting in an 80% decrease in latency.
- Authored a technical case study on the design decisions and engineering challenges faced while building

## **Software Developer,** *Self-employed*

Apr 2022 - Nov 2022

Developed open-source software, some highlighted applications include:

- ReAck: An application for collecting and inspecting HTTP webhook requests. ReAck is built with React, Node.js (Express framework), PostgreSQL, MongoDB, and Nginx.
- Rate Your Dinner: An application for rating culinary experiences. Built with Pug templating engine, Node.js and PostgreSQL.

## **Actuarial Analyst - Pricing & Reserving,**

Jan 2019 - Apr 2022 | Toronto

KPMG Canada, Wawanesa Insurance, NBFC, RSM Canada

Actuarial science relies on mathematics, statistics, and finance to quantify risk present in insurance products.

- Prepared the valuation for lines of businesses cumulating to more than \$1 billion.
- Collaborated closely with clients to achieve desired goals.
- Built data and financial models to support business requirements.
- Mentored junior team members during onboarding process.

#### SKILLS

	HTTP, Docker, k, Git, WebSocket, nooks, and Tableau
--	---

#### **EDUCATION**