# Maxime St-Onge Amoretti

*Backend Software Developer*

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## PROFILE

I am a strong independent problem solver who loves contributing to vibrant teams. After spending three years working as an actuarial associate in the insurance industry, I decided to re-skill in May 2022 to become a software developer.

## RELEVANT EXPERIENCE

**Co-Creator, Software Developer**                                                     Jan 2023 – present
*Otter (otter-framework.dev)* 🔗
Otter is a cloud native framework to easily integrate peer-to-peer video communication within web applications.
- Engineered an auto-scaling serverless infrastructure on AWS to enable WebRTC functionality into 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 (AWS CLI).
- Developed a frontend application for private 1-on-1 meetings hosted by Otter (CloudFront with S3 Bucket). Features include 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 for low latency by reducing the number of reads to DynamoDB.
- Authored a technical case study on the design decisions and engineering challenges faced while building Otter.

**Launch School**                                                                    Apr 2022 – Dec 2022
Attended a mastery-based education program focused on software engineering fundamentals.
- 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.

## PROFESSIONAL EXPERIENCE

**Actuarial Analyst, Actuarial Services - Consulting**                    Sep 2021 – Apr 2022 │ Toronto
*RSM Canada*
- Performed the valuation of multiple insurance companies at year-end.

**Actuarial Analyst, Corporate Reserving**                                Feb 2021 – Aug 2021 │ Toronto
*Northbridge Financial Corporation*
- Prepared the valuation of the commercial lines of business cumulating to more than $1 billion.

**Actuarial Analyst II, Actuarial Pricing**                               Jun 2020 – Feb 2021 │ Toronto
*Wawanesa Insurance*
- Analyzed and monitored multiple insurance products on a monthly basis.

**Actuarial Analyst, P&C Actuarial Practice - Consulting**                Jan 2019 – Jun 2020 │ Toronto
*KPMG Canada*
- Participated in the audit of over 20 clients during year-ends and contributed to Appointed Actuary work.

## SKILLS

| Frontend | Backend | AWS Cloud | Other |
|---|---|---|---|
| JavaScript, React, HTML, and CSS | Node.js, Go, PostgreSQL, MongoDB, and RESTful APIs | Lambda, ECS, EC2, Fargate, API Gateway, CloudFront, S3, NLB, IAM, and DynamoDB | TypeScript, WebRTC, Docker, Nginx, Git, WebSocket, and Webhooks |

## EDUCATION

**Software Engineering & Full-Stack Web Development**                                            2022
*Launch School*

**B.Sc. - Mathematics (Actuarial Specialization)**                                              2018
*Université de Montréal*