

# Robert Attard

## Software Engineer

📍 Montreal, Canada    🌐 [github.com/TanklesXL](https://github.com/TanklesXL)    [in linkedin.com/in/rob-attard/](https://www.linkedin.com/in/rob-attard/)

### 📁 Professional Experience

#### Index Exchange

*Software Engineer - Go Microservices Development*

12/2019 – 07/2022

Montreal, Canada

- Reduced ad-registration time, *from 3 hours to 15 minutes*, using an *event-driven architecture (Apache Kafka, Go, Watermill, Benthos)*, increasing effective bid counts and improving exchange efficiency and introspection capacity.
- Eliminated service development and life cycle management overhead with **CI/CD** and monitoring (**GitLab CI, Docker, K8S, ArgoCD, Grafana**), saving engineers on average 2 hours of work per week.
- Championed the adoption of new tools and methodologies across the engineering organisation, such as **Watermill & Benthos** for developing *event-driven systems*.
- Designed and ran experiments to improve auction efficiency and reduce billing discrepancies.
- Interviewed co-op students and assisted in their on-boarding by creating learning materials and running an "intro to Go" workshop.

*Software Engineering Intern - Go Back-End Development*

05/2019 – 08/2019

Montreal, Canada

- Developed **REST & gRPC** services for programmatic partner configuration, eliminating the need for manual intervention.
- Minimized dependencies on operations personnel by authoring CI/CD pipelines for web services (**GitlabCI, Go, Bash**).

**Matrox Imaging**, *Software Engineering Intern - C# Desktop Application Development*

05/2018 – 12/2018

Montreal, Canada

- Extended application functionality additional image processing and manipulation (**C#, WPF, XAML**).
- Instrumented distributed testing across local machines with **Jenkins**, reducing full UI test runs *from 4 hours to 30 minutes*.

### 🎓 Education

**Bachelor of Computer Engineering (BEng)**, McGill University

2015 – 2019

Montreal, Canada

### 📁 Projects

**Gleam**, *A Statically Typed Language for the Erlang VM* ✖

- Provided design input for the language and standard library.
- Contributed tooling, standard library and external functionality. (Gleam, Rust)

**Glint**, *Create CLI applications with Gleam* ✖

- Created a framework for building CLI applications with flags and auto-generated help messages.

**Gladvent**, *An Advent of Code framework for Gleam* ✖

- Used Glint to build a framework for writing & running Advent of Code solutions in Gleam.
- Leveraged the BEAM to run solutions concurrently with configurable timeouts.

**Tastings**, *A simple spirits tasting aide* ✖

- Built a web app built with Elixir, Phoenix LiveView & Gleam that scrapes masterofmalt.com to filter and display relevant product details and sensory information.

### 🧠 Skills

**Languages** — English, French, Italian    •    **Programming**

**Languages** — Go, Gleam, Bash, Elixir, Erlang, C, Rust    •

**Development Tools** — Linux, Git, GitLab CI, Docker, Kubernetes, Apache Kafka, Grafana, Prometheus, InfluxDB, MySQL

### 📜 Certificates

**Professional Scrum Master 1 (PSM)** ✖

*Certified through scrum.org*