

## EXPERIENCE

**Software Engineer** — *Workerholic (OSP), New York, NY* — <https://workerholic.github.io> — 2017 - present

- Designed and implemented the ASP (Adaptive and Successive Provisioning) algorithm which resulted in 40% increase in throughput, putting Workerholic's performance on par with Sidekiq's (gold-standard in Ruby)
- Designed and implemented historical statistics storage, enabling Workerholic to store up to 365 days of data in Redis and query that data from the Web UI with low latency (75 kB HTTP response)
- Designed and implemented a CLI which resulted in making Workerholic highly configurable
- Implemented a custom testing method, effectively enabling testing in a multithreaded context
- Improved the decision making of my peers regarding their background jobs system by giving 45-minute technical talks at large software engineering meetups

**Full Stack Web Developer** — *Freelance and personal projects, New York, NY* — 2015 - 2017

- Built an extensive number of front-end/back-end/full-stack web applications: <https://antoineleclercq.github.io>
- Performed technical reviews of Ruby on Rails programming book and associated apps

**Data Analyst** — *FreshPlanet, New York, NY* — 2015 - 2016

- Improved decision making process of Tech Leads/PMs/CTO/CEO for core products of the company by creating analytics reports and designing predictive models for critical metrics such as Retention and LTV

## SKILLS

**Top skills:** Ruby, JavaScript, SQL/RDB, Data Structures/Algorithms, Rails, Redis, jQuery, HTML/CSS, HTTP

**More Skills:** System Design, Sinatra, Node, Express, Postgres, TDD, RSpec, Capybara, Backbone, Amazon S3

## PROJECTS

**Workerholic** — <https://workerholic.github.io>

*An efficient and scalable Background Job Processor. It allows developers to delegate computational/IO intensive tasks, such as external API calls or processing videos. It can handle heavy loads, and process millions of jobs efficiently. Features include automatic worker provisioning with the ASP algorithm, a CLI, scheduling delayed jobs, job execution failover, scalable performances with multi-threading/multi-process execution, reporting web UI and Rails integration.*

Ruby, Redis, connection\_pool, Sinatra, RSpec

**Myflix** — *A video subscription web service application with account management, administration capabilities, email notifications, possibility to invite friends, user following feature, subscription and payments handling.*

Ruby, Rails, TDD/BDD, RSpec, Capybara, Redis, Sidekiq, Amazon S3

**AnTrello** — *A complex, feature-rich project management web application.*

JavaScript, Backbone, Node, Express, PostgreSQL, Jasmine, Jade, Stylus, Handlebars

## EDUCATION

**B.S. Economics and Data Mining** — *University of Angers - Marne La Vallee, France* — 2010-2014