Antoine Leclercq

Software Engineer - *Permanent Resident*

New York, NY
antoine.leclercq.49@gmail.com
https://antoineleclercq.github.io

⚡ Projects

Workerholic — *An efficient and scalable Background Job Processor built from scratch. Supports concurrency and parallel processing and makes use of custom algorithms such as the ASP (Adaptive and Successive Provisioning) algorithm. Takes full advantage of Redis. Comes with a Web UI for statistics, a CLI for ease of use and integrates with Rails. Runs on MRI and JRuby.*—**https://workerholic.github.io**

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 project management web application that allows for creation, deletion, archival, reorganization, labeling and keyword search of lists and cards in list.*

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

📋 Skills

➔ **Problem Solving**
  - **Algorithms/DS**
  - **System Design**
➔ **Ruby**
  - **Rails, Sinatra**
➔ **JavaScript**
  - **jQuery, Backbone**
  - **Node, Express**
➔ **DB**
  - **SQL**
  - **Redis**
➔ **TDD/BDD**
  - **Rspec, Capybara**
➔ **HTML, CSS**

💼 Experience

Software Engineer — *Workerholic (OSP), New York, NY* — **https://workerholic.github.io** — **2017 - present**
  - ➔ **Gave a 45 minutes talk at largest Ruby meetup in NYC about Workerholic: https://youtu.be/BnTT01k1Ztg**
  - ➔ **Built a Background Job Processor (BJP) from scratch:**
    - **Implemented concurrency and parallel processing, improving efficiency and scalability**
    - **Built a Web UI that includes a reporting interface, displaying real-time and historical data for up to a year**
  - ➔ **Led design and implementation of 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)**
  - ➔ **Led design and implementation of a CLI which resulted in making Workerholic highly configurable:**
    - **Scalable performance thanks to a configurable number of workers, processes and/or redis connections**
    - **Adaptive startup by automatically loading Rails or letting the user require a specific application file**

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**

🏛 Education

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