

# Mourjo Sen

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<http://mourjo.me/>

## EXPERIENCE & PROJECTS

### HELPSHIFT Backend Software Engineer

October 2015 - present

- Working with powerful technologies – Elasticsearch, MongoDB, Redis, Apache Kafka, Nginx etc. hosted on AWS and codebase in **Clojure**.
- Wrote a seamless query-based **search engine** using **Elasticsearch** from scratch – with continuous improvements.

### SPAM DETECTION IN TWITTER with Dr Arnaud Legout, Inria

April 2014 - August 2015

- Analyzing the **Twitter graph** to find a measure of “trust” based on users’ activities and connections on Twitter, to detect spam behaviour.
- Using Twitter **REST APIs** and **Streaming APIs** to collect data.
- Followed with a 6-month internship on this topic funded by **Mircosoft Research**.

### PET PROJECTS

February 2011 - present

- EduSoc**: A web-based **social network for education** that promotes education by making it a social activity. Developed using **PHP** and **MySQL**. [github.com/vabh/EduSoc](https://github.com/vabh/EduSoc).
- JChirp**: A **Java wrapper** to access to the Twitter REST and Streaming APIs with authentication. [github.com/vabh/JChirp](https://github.com/vabh/JChirp).
- Alienvation**: Developing a GUI game using **Java Swing** in which a player controls spaceships and fights against aliens. [github.com/mourjo/Alienvation](https://github.com/mourjo/Alienvation).
- Reconnect**: A simple Python script to reconnect to a specific internet portal using **Selenium Web Driver**.
- A **Gmail webapp** to show statistics of a Gmail inbox. [github.com/mourjo/gmail-webapp](https://github.com/mourjo/gmail-webapp).

### OTHER PROJECTS

July 2012 - January 2015

- Scheduling virtual machines** in a simulated datacentre to meet the SLA, minimize energy consumption and maximize revenue. Used CloudSim framework.
- AI game engine** in Java for the African game Oware.
- CreatureSim**: A Java project to simulate an environment with **communicating independent agents** that move around, form groups, search for interest points and have real-time **plugin-based behaviour**.
- An **Eclipse plugin** to convert GUI-drawn **theoretical models** of computation to **runnable programs**. Implemented using the **Eclipse modeling framework**. [mourjo.me/emf.pdf](http://mourjo.me/emf.pdf).
- Three research publications, two of which are **IEEE publications**.

## EDUCATION

### UNIVERSITÉ NICE

MS in Computer Science

2013 - 2015, Nice, France

– First Year:

- Grade: 15.18/20 (**75.9%**)
- Rank: **2<sup>nd</sup>**

– Second Year:

- Specialization in Networking
- Grade: 15.98/20 (**80.1%**)
- Rank: **1<sup>st</sup>**

### ST. XAVIER'S COLLEGE

BSc in Computer Science

2010 - 2013, Kolkata, India

Grade: 83.6% (**Rank 4<sup>th</sup>**)

## AWARDS

### Laboratory of Excellence

(LABEX) scholarship of  
€ 12,500 awarded by Labex  
UCN@Sophia for first and  
second year of MS.

## PROGRAMMING

### LANGUAGES & TOOLS



Proficient:

Clojure • Java • Elasticsearch •  
Emacs • Python • PHP • Git

Familiar:

C++ • MongoDB • Vagrant •  
Apache Kafka •  $\text{\LaTeX}$  •  
Amazon EC2 • Shell Script •  
Selenium Web Driver • Tsung

## LINKS

 [github.com/mourjo](https://github.com/mourjo)  
 [linkedin.com/in/mourjosen](https://www.linkedin.com/in/mourjosen)  
 [smarterer.com/mourjo](https://smarterer.com/mourjo)  
 [twitter.com/mourjo\\_sen](https://twitter.com/mourjo_sen)  
 [quora.com/Mourjo-Sen](https://www.quora.com/Mourjo-Sen)  
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