

Mourjo Sen

sen.mourjo@gmail.com | mourjo@mourjo.me
+91 98307 47541 | +91 91725 73349
<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 custom-DSL-based **search engine** using **Elasticsearch**, which searches ~60M documents in less than 300 ms, while providing helpful **autocompletions**.
- Wrote extensive property-based tests (generative tests) using the **QuickCheck** method to validate search results against the DSL.

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.
- JChirp**: A **Java wrapper** to access to the Twitter REST and Streaming APIs with authentication. 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.
- 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.

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.
- 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: **2nd**

– Second Year:

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

ST. XAVIER'S COLLEGE

BSc in Computer Science

2010 - 2013, Kolkata, India

Grade: 83.6% (**Rank 4th**)

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 • \LaTeX •


Amazon EC2 • Shell Script •

Selenium Web Driver • Tsung


LINKS


 github.com/mourjo

 [linkedin.com/in/mourjosen](https://www.linkedin.com/in/mourjosen)

 smarterer.com/mourjo

 twitter.com/mourjo_sen

 [quora.com/Mourjo-Sen](https://www.quora.com/Mourjo-Sen)

 facebook.com/sen.mourjo