Mourjo Sen

sen.mourjo@gmail.com | mourjo@mourjo.me
+91 98307 47541 | +91 91725 73349
http://mourjo.me/

EXPERIENCE & PROJECTS

HELPSHIFT Backend Software Engineer II
October 2015 - present

- Working with industry-standard technologies – Elasticsearch, MongoDB, Redis, Apache Kafka, ScyllaDB in **Clojure**.
- "Subject-matter expert" for **Elasticsearch-related** work at Helpshift.
- Wrote a custom-DSL-based **search engine** using **Elasticsearch**, which searches ~90M documents in less than 300 ms, while providing helpful **autocompletions**.
- Wrote property-based tests (generative tests) using the **QuickCheck** method to automate test case generation.
- "Subject-matter expert" for benchmarking and **capacity-planning** technologies at Helpshift.
- Part of **technical interview panel** at Helpshift.

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**.
- 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

- **Spot Award** at Helpshift during the very **first award ceremony** in the history of the company for a year of distinguished work.
- **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 • MongoDB
Familiar:
C++ • Vagrant • Apache Kafka • LaTeX • Tsung

LINKS

github.com/mourjo
linkedin.com/in/mourjosen
twitter.com/mourjo_sen
quora.com/Mourjo-Sen
facebook.com/sen.mourjo