# Mourjo Sen

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## EXPERIENCE & PROJECTS

### FINDING SPAM TWEETS ON TWITTER with Dr Arnaud Legout, Inria
*April 2014 - February 2015*

- Using Twitter **REST APIs** and **Streaming APIs** to crawl Twitter and collect data from a remote cluster using a parallel **Python** crawler.

- Analyzing **huge datasets** of Twitter to find a measure of "trust" for users based on their activities and connections on Twitter, and thus to identify spam activity.

### INTERNSHIPS
*August 2012 - present*

- **Mircosoft Research** and **Inria**: Working as a research intern for six months on further work on the spam analysis of Twitter, funded by **Mircosoft Research**. In total, worked for a year on the analysis of spam in Twitter.

- **Braindrops, India**: Worked as a web developer at a start-up company Braindrops, worked on the project "SharodInfo" and the website *www.sharodinfo.com*.

### PET PROJECTS
*February 2011 - present*

- **JChirp**: A **Java library** to access the Twitter REST and Streaming APIs, with implementation of OAuth authentication protocol. Development team of two members. *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*.

- **Shape detector**: A Java project to find all shapes formed by inputted lines in a 2D space. *github.com/mourjo/ShapeDetection*.

- **SXC-CMS**: A web application to manage the St Xavier's College's credit system using PHP framework **CodeIgniter** and CSS framework **Bootstrap**. Development team of two members. *github.com/mourjo/SXCCMS*.

### 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. Developed in Java by a team of two members.

- **Edusoc:** A web-based **social network for education** for teaching and learning over the Internet aimed to promote educational activities, using dynamics of social networking. Developed by three members, using **PHP** and **MySQL** for the backend. *github.com/vabh/EduSoc*.

- **AI game engine** in Java for the African game Oware.

- Implementation of **Extensible Authentication Protocol** in Java, for secure socket-based connections.

- **Android** project on a safety-critical traffic lighting system.

- **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 inputted **theoretical models** of computation to **runnable programs** with multi-threaded components. Implemented using the **Eclipse modeling framework**. Development team of five members.

- **Optimal edge detector** on Matlab based on the Canny-Deriche filter.

- 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
University of Calcutta
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:
Java • Python • PHP • Matlab • JavaScript • MySQL • CSS • Eclipse Modeling Framework • PHP CodeIgniter framework
Familiar:
C • C++ • OpenCV • Android • LATEX • OpenGL • R • Amazon EC2 • NuSMV • Eclipse Plugin Development • Coq • Shell Script

## LINKS

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