

# Shrobon Biswas

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GitHub: <https://github.com/shrobon>  
Website: <http://shrobon.com>



Learn | Code | Debug | Deploy



## Education

09/2016 - 08/2018

### University of Alberta (Edmonton, Canada)

M.Sc in Computing Science  
Specialization : Multimedia  
GPA: 3.9 / 4.0

08/2012 - 07/2016

### West Bengal University of Technology (Kolkata, India)

(B.Tech) Bachelor of Computer Science & Engineering  
GPA: 8.82 / 10

## Projects

### Tweenalyzer : A tweet analyzer ([Web](#))

Area of work: Data Mining / Data Visualization  
► Skills: Flask, Google charts, Twitter API

### Improving image classification accuracy using Deep-Learning ([View](#))

Area of work: Computer Vision / AI  
► Increased classification accuracy to 91.18%  
► Skills: Keras(Theano) , Python , OpenCV

### Classification of Traditional Chinese Medicine ([View](#)) Area of work: Computer Vision / ML

### Safari Rush Solver ([View](#))

Description : An AI to solve any puzzle configuration for the game of Safari Rush Hour  
► Uses SMA\*algorithm, blocking vehicle heuristic  
► Decreased search time by 30% by using efficient data structures.

### Ataxx Bot ([View](#))

Description : An AI opponent that plays optimal moves in limited time to win Ataxx  
► Uses Alpha-beta pruning with iterative deepening  
► Hashtables are used for memoization

### Dev-Support ([Preview](#))

Description : A marketplace for developers to showcase their projects and sell their code.  
► Skills: Flask, Github API , Stripe API, Materialize

### Talkativ -A lightweight chatroom app([View](#))

► Skills: NodeJs and MongoDB, Redis, NGINX  
► Supports login using Facebook OAuth2

## Technical Skills

- Java, python, C++
- Scikit-Learn, Keras , MLLib, Kafka ,Hadoop
- SPARK, MongoDB, MySQL, Cassandra,
- HBase, AWS, Hive,OpenCV, MATLAB ,DLib
- Seaborn, Matplotlib, Pandas, D3, Plotly
- Flask, NodeJs, HTML, CSS, JS
- Bootstrap, Android Studio, Git , Heroku

## Previous Internships

06/2015 - 08/2015

### Attify Mobile Security Pvt.Ltd

(Bangalore, India)

Position: IOT Research Intern



## Certifications

### Microsoft Certified Professional

License: E873-5473  
July 2014



## Independent Coursework

Deep Learning (September 2016)  
[udacity.com](http://udacity.com)



Complete Android Developer Course  
[udemy.com](http://udemy.com) (December 2016)



Python for Data Science and Machine  
Learning (December 2016)  
[udemy.com](http://udemy.com)



## Publications

9 July 2016

IoT-MQTT based Energy Efficient Economic Home  
Automation System (first author)([Download](#)) 3rd  
International Conference on Microelectronics, Circuits and  
Systems, Micro2016.

## Authored Courses

Hands on Computer Vision with OpenCV &  
Python ([Course Website](#))

- Students Enrolled: 82