Goutom Roy

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Career Objective

I am a full stack developer and a big fan of free and open source software. My experience primarily lies with the use of Python, Django (a Python based web framework), Android application development and managing various AWS services such as EC2, S3, RDS etc or any linux vps. My interest is being involved in every phase of the software development process. I have 5 years of Python and 5+ years of Django. Also 6+ years of Android application development experience.

What I will do

- I will be prototyping of your idea.
- I will write restful apis using python(Django)
- I will write test cases for apis.
- I will write/generate documentation for apis.
- I will upload project to amazon or any linux server.
- I will write efficient, maintainable and reusable code for android application.

ACM (Association for Computing Machinery) programming skill

- Most of my university life I spent on ACM programming in UVA online judge , Sphere Online Judge .

- Solved 486 problems using C, C++, STL and about 96 solutions are pending as PE(presentation error).My UVA profile can be found here.

- Attended countless online, local programming contests with team or personally. I attended in **NCPC** (National Computer Programming Contest)and **ICPC**(International Computer Programming Contest) on behalf of Shahjalal University of Science and Technology with my team in 2008.

Areas of Expertise

Programming Languages: C, C++, Python, Java

Databases: Redis, PostgreSQL, MongoDB, Neo4j

Platforms: GNU/Linux, Windows, Android

Backend Technologies: Django, RESTful web services using DRF, Django Channel 2, asyncio, Aiohttp, Celery, Gunicorn, Nginx, Memcached.

Frontend Technologies: Android, Aiohttp, JSON

Tools: Git, SSH, Bash, Google Flavored Markdown, PyCharm, Android Studio, Eclipse, vi, pgAdmin, SQL Developer, LibreOffice writer, Microsoft Office

IaaS/PaaS: AWS EC2, Heroku, DigitalOcen

Pure Python Projects

- **"Wordforge", a Localization tool**.**Wordforge** is a **Sourceforge.net** project which is a **localization tool** targeted for easing the process of **localization** by providing many automated features. My job is to carry out **research** and **implement** new features in this tool (**Wordforge**) that **accelerates** the whole **localization process, ensures error free localization** and **enables** novice localizers to localize with ease. I used **python, PyQt** to develop this tool. The details of the project can be found [here](#).

Developed Android Applications

[WorkJapan](#)   A job seeking application for foreigners in Japan. I wrote whole application.

[Smart Home](#)   It is a **IOT** project.I was responsible for adding, controlling all wifi devices(light controller, light sensor, curtains) to this application using mqtt paho client communicating with mqtt mosquito server and mesh network between wifi or BLE based devices.

Car Inventory for   An android app scans cars barcode/qr-code when arrive first in the vault to sell. After scanning , it hits a third party

[carvision](#)	api for its complete mechanical information to store data in server so that later they can show it to customer by searching.Here I used Snapdragon Face recognization sdk.
Employee Timing/salary tracker with face recognition/ detection for [carvision](#)	A tablet will be hanging in the front door of office with an app of face recognition capability. When an employee comes app recognize the person and make an entry/exit in server. It has very good admin panel which generates employees salary based on timing, $ per hour or monthly basis.There is also an app for registering employee.
[GoFresh](#)	An ecommerce application for Bangladesh. I wrote whole application.
[Forgive for Good](#)	Learning how to forgive by Dr. Fred Luskin. I wrote whole application.

Server Side Projects

[WorkJapan](#)	A job seeking application for foreigners in Japan.My responsibilities was to build a interview time scheduling api service, building admin interface, user profile management, notifications service api, user's job application management. **Technology used**: Django, django-rest-framework, celery, redis, postgresql, nginx, FCM, gunicorn, ec2
Car Inventory for [carvision](#)	An android app scans cars barcode/qr-code when arrive first in the vault to sell. After scanning , it hits a third party api for its complete mechanical information to store data in server so that later they can show it to customer by searching. **Technology used**: Django, django-rest-framework, postgresql, nginx, gunicorn, ec2
Employee Timing/salary tracker with face recognition/detection for [carvision](#)	A tablet will be hanging in the front door of office with an app of face recognition capability. When an employee comes app recognize the person and make an entry/exit in server. It has very good admin panel which generates employees salary based on timing, $ per hour or monthly basis.There is also an app for registering employee. **Technology used**: Django, django-rest-

framework, postgresql, nginx, gunicorn, ec2

GoFresh - an ecommerce application to connect all the super shop of Bangladesh.

Technology used: Django, django-rest-framework, postgresql, nginx, gunicorn, DigitalOcen

Undergraduate thesis

Titled **"Pattern matching algorithm analysis and their implementation on bioinformatics"**Based on the analysis of different multiple sequence alignment algorithms and their performance measurement on building phylogenetic tree.

Online Profiles

Github   https://github.com/goutomroy/

AngelList   https://angel.co/goutom-roy

Job Experience

ANKUR ICT DEVELOPMENT FOUNDATION	As a python developer. January 2010 to September 2012 – 2 year 10 months.
SurroundApps Inc. Ltd.	As a python developer. November 2012 to February 2014 – 1 year 4 months
AplombTech BD	As a Android developer. January 2016 to June 2017 – 1 year 6 months
WORK JAPAN Co.,Ltd	As lead android developer as well as backend service developer. July 2017 to present – 1 year 5+ months

Education

2005 – 2010, Department of Computer Science & Engineering , Shahjalal University of Science and Technology.

Reference

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