

Cliffton Fernandes

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EDUCATION

MUMBAI UNIVERSITY

BE IN INFORMATION TECHNOLOGY
 Aug 2009 - May 2013 | Mumbai

ROCHESTER INSTITUTE OF TECHNOLOGY

MS IN COMPUTER SCIENCE
 Aug 2017 - Present | Rochester

LINKS

Github:// [cliffton](#)
 LinkedIn:// [cliffton](#)
 Quora:// [Cliffton-Fernandes](#)

COURSEWORK

UNDERGRADUATE

Data Structures and Algorithms
 Networking Technology
 Operating Systems
 Object Oriented Analysis and Design
 Database Technology
 Artificial Intelligence
 Data Mining
 Simulation and Modeling
 Cloud Computing

SKILLS

PROGRAMMING

Over 50000 lines:

Python

Over 5000 lines:

Javascript • CSS3

Over 1000 lines:

Java • PHP • Shell • SQL

Familiar:

Android • Embedded C • Google Apps Script

FRAMEWORKS

Django, • AngularJS • Odoo • ExtJS
 JQuery, • NodeJS • Bootstrap

DATABASES/DATASTORES

PostgreSQL • MySQL • MongoDB
 Redis • Firebase

OPERATING SYSTEMS

Linux (x86, ARM) • OS X • Windows

TOOLS

Git • Amazon Web Services • NGINX •
 RabbitMQ

EXPERIENCE

CREDR | SOFTWARE DEVELOPMENT ENGINEER 3

Aug 2015 – Present | Mumbai

- Built a real-time app based auctioning system.
- Service Oriented Architecture for the core system (Pub-Sub Pattern).
- Built Scalable REST APIs with user permissions and authentication.
- Salesforce Integration and internal CRM development (Odoo).
- Responsibilities also include leading the backend team and mentoring.

ZAYA LEARNING LABS | FULL STACK SOFTWARE ENGINEER

May 2014 – Jul 2015 | Mumbai

- Distributed master-master intermittently connected database syncing system.
- Middleware to direct web requests to query the right database from a list of sharded databases based on the authenticated user.
- Extension to the Django ORM for softdelete of records from the database along with cascade softdelete and undelete features.
- Module for incremental download of assets and media files from an Amazon Simple Storage Service bucket with async feedback of the progress.
- System to generate custom primary keys for models in a database to uniquely identify the object across a number of distributed databases.
- Module to allow command line access to remote devices using SSH tunneling.
- Built a custom android home screen launcher to restrict access to the device used by K12 students.

WIREDIN INTERACTIVE | SOFTWARE ENGINEER

Aug 2013 – May 2014 | Mumbai

- Scalable core backend functionality and RESTful APIs for mobile.
- Image manipulation and resizing using Python Imaging Library.
- Push notifications, SMS/e-mail verification.
- Built the Front-End of a CMS using AngularJS and Sass.
- Google Maps API for location filtering and other location specific features.
- Built Windows Phone 8 app using ExtJS and Phonegap/Cordova.
- Developed C# Cordova plugins for using native Windows Phone 8 features which are not inherently available in the Cordova API.

OTHER PROJECTS

CONSUMER BEHAVIOUR ANALYSIS IN E-COMMERCE USING DATA MINING

- Recommender System using User to User based Collaborative filtering.

GSM CONTROLLED LINE FOLLOWER ROBOT

- Atmega8 microcontroller, AVR studio, Embedded C.

BLOOD DONATION APP

- Online service and Android app to facilitate blood donation.

POSTS AND AWARDS

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| 2014 | 2 nd Place | Google Developers Group Hackathon BSE-Ryerson |
| 2013 | Chairperson | Computer Society of India (CSI-DBIT) |