Harsh Patel

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Phone : 321-525-9604

SKILLS

Comfortable	C	Java	R	SQL	XML	Bash Scripting	Git	Android	Docopt
Familiar	C++	Python	LaTeX	Cloud Computing	Concurrent Programming	Haskell			

EDUCATION

Bachelors in Computer Science, University of Central Florida, Orlando, FL - 32816   Graduation: August 2017

- In-Major GPA : 3.7
- President's Honor Roll - Spring 2016

WORK EXPERIENCE

Teaching Assistant, Database Management Systems, University of Central Florida   Spring 2017

- Proctored and graded student exams and assignments
- Met with 40 student groups individually to review and grade their course project implementations
- Answered student questions about the course content **(SQL** and **XML)** and grading policies

Part-Time Employee, Star Liquor, Cocoa, FL - 32927   2014 - Present

- Process customer sales transactions at the POS terminal and stock store inventory upon delivery

PROJECTS

Metagenomic Taxonomic Inference, Source : https://github.com/harshpatel1995/mti   Fall 2016 - Present

- Designed a software package for **Ubuntu 16.04** to infer and visualize relative abundances of microbial genomes present in a metagenomic sample using **Docopt** for a **command-line interface**
- Implemented GRAMMy (http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0027992) in **C++** from scratch to statistically infer the genome relative abundance of a sample using mixture models
- Created a visualization module for users to analyze relative abudances of their samples in **Python** using **Pandas DataFrames**, **ETE Toolkit** and **Seaborn**

My Fitness Buddy, Source: https://github.com/harshpatel1995/MyFitnessBuddy.git   Spring 2016

- Created an **Android** application for users to create, log and track workouts
- Implemented app functionality using **Java** and layouts using **XML** with a focus on a clean **user interface**
- Designed a **SQLite** database to store, retrieve and filter stored data

VOLUNTEER

Notetaking Volunteer, Student Accessibility Services, University of Central Florida   Spring 2017

REFERENCES

Dr. Shibu Yooseph, Computer Science Professor, Genomics and Bioinformatics Cluster Lead, University of Central Florida

- Sponsor and mentor for Metagenomics Taxonomic Inference Project
- E-mail : Shibu.Yooseph@ucf.edu   Phone : 407-823-5307

Dr. Khanh Vu, Professor, Department of Electrical Engineering and Computer Science, University of Central Florida

- Professor for the Teaching Assistant position for Database Management Systems
- E-mail : Khanh.Vu@ucf.edu