

HARSH PATEL

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SKILLS

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

EDUCATION

Bachelors in Computer Science, University of Central Florida, Orlando, FL - 32816

Graduation: May 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 the course project
- Answered student questions about the course content (**SQL** and **XML**) and grading policies

Part-Time Employee, Star Liquor

2014 - Present

- Process customer sales transactions and stock store inventory upon delivery

PROJECTS

Metagenomic Taxonomic Inference

Fall 2016 - Present

- Source: <https://github.com/harshpatel1995/mti>
- 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 command-line interface
- Implemented GRAMMy in **C++** to statistically infer the genome relative abundance of a sample using mixture models
- Implemented a data visualization module in **Python** using **Pandas DataFrames**, **ETE Toolkit** and **Seaborn**

My Fitness Buddy

Spring 2016

- Source: <https://github.com/harshpatel1995/MyFitnessBuddy.git>
- Created an **Android** application for users to create, log and track workouts
- Implemented functionality using **Java** and layouts using **XML**
- Designed a **SQLite** database to store, retrieve and query user data

VOLUNTEER

Notetaking Volunteer, Student Accessibility Services, University of Central Florida

Spring 2017

REFERENCES

Dr. Shibu Yooseph, 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