

HARSH PATEL

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SKILLS

Comfortable	C	Java	Python	R	SQL	Git	Bash Scripting	Android	XML	Docopt
Familiar	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
- Respond to customer questions and concerns about store products
- Stock store inventory upon product 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 abundances of their samples in **Python** using **Pandas DataFrames**, **ETE Toolkit** and **Seaborn**
- Downloaded and built a **BWA** search index reference of all prokaryotic and viral genomes from **NCBI's RefSeq** database using **bash scripting** in UNIX

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 providing a clean **user interface**
- Designed a **SQLite** database to store, retrieve and filter user data using a customized search filter

VOLUNTEER SERVICE

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

- Created and uploaded class notes and exam reviews for two disabled students