

Tipparat Umrod

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2016

Bachelor of Science in Computer Science

Bachelor of Science in Biology, concentration in computational biology

❖ GPA 3.38

EXPERIENCES

Texas Advanced Computing Center, Austin, TX

Summer 2014 - Present

Undergraduate Research Associate

- ❖ Managed and maintained lung images and metadata along with the images for the [lungMap](#) project (Center for Lung Development Imaging and Omics)
- ❖ In the process of implementing a Python GUI for gene expression detection program to facilitate data analysis for the lungMap project

PCL Library, University of Texas at Austin, Austin, TX

Summer 2014

Complex Cataloging Student Associate

- ❖ Managed book catalog on Sierra and OCLC database

PROJECTS

[intergalacticdb.me](#) - *Python Web Application*

- ❖ Collaborated with four other teammates to develop a simple Star Wars database hosted on Rackspace for Software Engineering course
- ❖ Configured web server using nginx and gunicorn
- ❖ Programmed the backend using Flask, PostgreSQL, and sqlalchemy
- ❖ Wrote a subset of unit tests and exposed to Travis CI and coverage tool

bisque-spreadsheet - *Python*

- ❖ Wrote Python scripts to manage and maintain metadata of the images, so that the user can upload multiple metadata, stored in a spreadsheet to BisQue Image Analysis Environment

TECHNICAL SKILLS

Proficient in Python, Java, and SQL

Programmed with C and Swift

Exposure to JavaScript, CSS, HTML, jQuery, Flask, PL/SQL, Oracle Data Modeler

COMMUNITY INVOLVEMENT/LEADERSHIP

Science Undergraduate Research Group (SURGe)

- ❖ Faculty Liaison (2 terms)
 - Coordinated with professors and researchers both on and off campus to present at SURGe
- ❖ Web Development Committee
 - Updated and maintained www.utsurge.org

Fall 2013- Spring 2015

Fall 2012-Spring 2013

Volunteer for SXSW, Forty Acre Fest, Project 2014, Explore UT

2013 and 2014