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

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 lungMap project (Center for Lung Development Imaging and Omics)
- ❖ In the process of implementing a cluster algorithm to analyze gene expression in an early lung development

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 image metadata, imported from a spreadsheet, on 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)   Fall 2013- Spring 2015
   - Coordinated with professors and researchers both on and off campus to present at SURGe
- ❖ Web Development Committee   Fall 2012-Spring 2013
   - Updated and maintained *www.utsurge.org*

Volunteer for SXSW, Forty Acre Fest, Project 2014, Explore UT   2013 and 2014