

# Tipparat Umrod

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[tipparatumrod.com](http://tipparatumrod.com) | [github.com/tumrod](https://github.com/tumrod)

## EDUCATION

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**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 3.34

## EXPERIENCES

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**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)
- ❖ Implemented bisque-spreadsheet and Celldetekt

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

Summer 2014

**Complex Cataloging Student Associate**

- ❖ Managed book catalog on Sierra and OCLC database

## PROJECTS

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[Celldetekt](#) - Python

- ❖ Implemented a Python GUI application for cell expression detection from an input image

[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 and programmed the backend using Flask, PostgreSQL, and sqlalchemy

[bisque-spreadsheet](#) - Python

- ❖ Implemented 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

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Proficient in Python, Java, C++ and SQL

Programmed with C and Swift

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

## COMMUNITY INVOLVEMENT/LEADERSHIP

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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](http://www.utsurge.org)

Fall 2013- Spring 2015

Fall 2012-Spring 2013

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

2013 and 2014