

Shukry Zablah

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EDUCATION

Amherst College, Amherst, MA

May 2020

Bachelor of Arts in Computer Science and Statistics

- Cumulative GPA: 3.70/4.00
- Honors Thesis: A Parallel Algorithm for Balanced Sampling
- Awards: Computer Science Prize (best performance in major and thesis), Mu Sigma Rho (National Statistics Honor Society)

PROFESSIONAL EXPERIENCE

Amherst College, *Statistics and Data Science Intern*, Amherst, MA

Sep '19 – May '20

- Pioneered the usage of Google Cloud Platform in the department by documenting how to use R to interface with 9 APIs – including the Natural Language Processing, Cloud Vision, and BigQuery APIs
- Directed a weekly workshop providing theoretical and technical help for 7-15 students from 4 courses

Tracer Labs, *Software Developer Intern*, New York, NY

Jun '19 – Aug '19

- Developed a custom connector with Apps Script allowing analysts using Google Data Studio to create asynchronous visualizations and dashboards from their social media campaigns aggregated in Tracer
- Implemented 3 endpoints in Python to integrate Google Data Studio, using Django (with a heavy OOP focus) to interface with PostgreSQL databases and for API, and Pandas for data manipulation
- Created an AWS S3 bucket using Terraform to add robustness to new Google Data Studio integration
- Built unit tests for API endpoints and also used Postman for debugging and testing the Tracer API

Amherst College, *Teacher Assistant*, Amherst, MA

COSC 365 – Performance Evaluation and Optimization

Jan '19 – May '19

- Designed a data processing pipeline in a cluster with more than 100 nodes using C, Bash, and R
- Surveyed performance optimization and analysis tools for in-class activities using C libraries
- Supported more than 10 students for help with C code, Git and Github, and GNU/Linux usage

ASTR 200 – Data Science w/Astronomical Applications

Jan '19 – May '19

- Lead weekly Python and statistical computing help sessions for a class of 15 students
- Provided in-class technical and theoretical help and graded Python assignments

PROJECTS

Intl Student Database, https://github.com/shukryzablah/cise_app

Sep '19 – Dec '19

- Designed and implemented PostgreSQL database for college's international student center
- Configured a VM running CentOS with a DB, firewall, and deployed app in Apache with SSL support
- Built Python backend using Flask and interfaced with DB using SQLAlchemy and Alembic
- Managed biweekly feedback sessions with core project sponsors as part of Agile development process

Wine Explorer, https://github.com/shukryzablah/wine_app

Oct '19 – Dec '19

- Developed web app with interactive maps and prediction engine using LeafletJS, R, and Shiny
- Engineered new features by geocoding and doing text analysis on 130K wine reviews
- Trained and cross-validated gradient boosting model for word influence analysis and score prediction

SKILLS

Programming Languages: Python, R, Java, SQL, HTML, CSS, JavaScript, Lisp

Frameworks/Libraries: Django, Flask, Tidyverse, Pandas, React

Tools: Git, PostgreSQL, Google Cloud Platform, GNU/Linux

Languages: English, Spanish, French