Shukry Zablah

szablah20@amherst.edu | (413) 682-5574
16 Barrett Hill Rd, AC2004, Amherst, MA, 01002

EDUCATION

AMHERST COLLEGE, Amherst, MA   Expected, May 2020
Bachelor of Arts in Computer Science and Statistics
- Cumulative GPA: 3.66/4.00

PROFESSIONAL EXPERIENCE

Amherst College, *Statistics and Data Science Fellow,* Amherst, MA   Sep '19 – Present
- Design activities for capstone course using GCP APIs such as TensorFlow, NLP, BigQuery, and Maps
- Direct weekly statistical computing and tutoring workshops for students in over 3 courses
- Implemented and published an R package for data analysis of the region's public bikeshare initiative

Tracer, *Backend Developer Intern,* New York, NY   Jun '19 – Aug '19
- Integrated Django/PostgreSQL backend and Google Data Studio using AWS S3 for storage
- Contributed to the team's QA/Testing process and participated in weekly standups

Amherst College, *Multiple Positions,* Amherst, MA

    Computer Science Fellow – 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
- Researched performance optimization and analysis tools for in-class activities using C libraries
- Tutored more than 10 students for help with C code, Git VC system, and GNU/Linux usage

    Data Science Teacher Assistant – 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

    Data Science Research Assistant   Dec '18 – Jan '19
- Assembled and documented a workflow to include the use of BigQuery in data science classes
- Experimented with the college's Spark cluster to run machine learning simulations in R

    Summer Undergraduate Research Fellow   Jun '18 – Aug '18
- Prototyped web application to visualize local hospitals and public transport routes
- Collaborated with three people to create supplementary course materials in R

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*   Sep '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

Valley Bikes, *https://github.com/shukryzablah/ValleyBikes*   Sep '19 – Dec '19
- Created and maintain R package providing API for Data Science students to use data from program
- Scraped and wrangled 2 years of public GPS data of 5 sec intervals for each bike
- Analyzed usage per community and relayed findings for government's meeting on program expansion

SKILLS AND AWARDS

Programming: Java, Python, R, SQL, Common Lisp, HTML, CSS, JavaScript, C, Bash
Frameworks/Tools: Django, Flask, Meteor, MongoDB, BigQuery, PostgreSQL, GCP, AWS, GNU/Linux
Languages: English, Spanish, French
Awards: Member of Mu Sigma Rho (US National Statistics Honor Society) | Hack Holyoke Prize
Interests: History | EdTech | Emacs | Fitness | Open Source