

Shukry Zablah

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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

- Explore ways of incorporating statistical cloud computing tech (Azure, AWS, GCP) into curriculum
- Manage project and implementation of an R package and analysis for the Valley Bikes public service
- Provide technical and theoretical guidance for both upper and lower level classes in weekly sessions

Tracer, *Backend Developer Intern*, New York, NY

Jun '19 – Aug '19

- Integrated Django backend and Google Data Studio using AWS to provide asynchronous workflow
- Participated in weekly standups and team's QA testing process

Amherst College, *Multiple Positions*, Amherst, MA

Computer Science Ginsburg Fellow

Jan '19 – May '19

- Designed a data processing pipeline for classroom experiments using C, Bash, and R
- Researched performance analysis tools for C programs such as PAPI for in-class activities
- Facilitated class activities by providing support with Linux, C, Git, and code profiling tools

Data Science Teacher Assistant

Jan '19 – May '19

- Coordinated weekly support sessions for Python scripting and explanation of statistical concepts
- Assisted professor in facilitating classroom discussions 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 relational model and implemented PostgreSQL database for international student center
- Configured a VM running CentOS with DB, firewall, and deployed app in Apache with SSL support
- Built Python backend using Flask for API and interface with DB using SQLAlchemy and Alembic
- Incorporated administration's feedback in dev process to build frontend using Bootstrap and jQuery

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

Sep '19 – Dec '19

- Developed web app with map interface, catalog, 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 Languages: Java, Python, R, SQL, Lisp, Javascript; familiar with C, Bash

Framework and Tools: Django, React, Flask, Meteor, Spark, BigQuery, PostgreSQL, Google Cloud

Languages: Native proficiency in English and Spanish; basic proficiency in French

Awards: Member of Mu Sigma Rho (US National Statistics Honor Society) | Hack Holyoke Prize

Interests: History | EdTech | Emacs | Fitness | Open Source