Shukry Zablah

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EDUCATION

AMHERST COLLEGE, Amherst, MA   Expected, May 2020
Bachelor of Arts in Computer Science and Statistics
- Cumulative GPA: 3.62/4.00
- Relevant Coursework: Data Structures, Algorithms, Machine Learning, Networks, Computer Systems, Databases, Data Science, Advanced Data Analysis, Performance Evaluation and Optimization, Analytical Performance Modeling, Probability, Cryptography, Linear Algebra, Statistical Consulting

PROFESSIONAL EXPERIENCE

Amherst College, *Statistics and Data Science Fellow,* Amherst, MA   Sep '19 – Present
- 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, *Software Developer Intern,* New York, NY   Jun '19 – Aug '19
- Integrated Django backend and Google Data Studio using AWS to provide asynchronous visualization workflow
- Developed unit and integration tests and participated in the team's QA process and weekly standups

Amherst College, *Multiple Positions,* Amherst, MA
Performance Evaluation and Optimization 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

Computer Science Tutor   Sep '18 – Dec '18
- Mentored two introductory level students, focusing on object-oriented programming concepts

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

Memory Layouts Effect on Runtime, *github.com/shukryzablah/sort-test*   Apr '19 – May '19
- Implemented timing experiments in a 120CPU computing cluster using C, R, and the shell

Geolocating Users in a Social Network, *github.com/shukryzablah/geolocating-ml*   Nov '18
- Created a k-nearest neighbor model using Python and R to predict location of users in synthetic data

Bikeshare App, *github.com/shukryzablah/bikeshare*   Nov '18
- Developed a web application using React, Meteor, and MongoDB for Amherst College bikeshare
- Earned interdisciplinary prize at Hack Holyoke '18 among ~150 participants

A Data Exploration of the Opioid Crisis, *github.com/shukryzablah/opioid*   Apr '18
- Extracted data from CDC database and created a web application in Shiny exploring opioid usage

SKILLS AND AWARDS

Programming Languages: Java, Python, R, SQL; familiar with C, Bash, JavaScript, HTML, CSS, Elisp
Framework and Tools: Django, React, Meteor, Shiny, Spark, BigQuery, Postgres, MongoDB, Condor
Languages: Native proficiency in English and Spanish; basic proficiency in French
Awards: Member of Mu Sigma Rho (US National Statistics Honor Society)
Interests: History | EdTech | Emacs | Fitness