Tom Bryan
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EDUCATION

Bachelor of Science: Applied and Computational Mathematics   Apr 2022
Minors in Computer Science, Economics   Provo, UT
Brigham Young University

- GPA: 3.9
- Relevant Coursework:
    - Math: Algorithms and Optimization, Linear Algebra, ODE, Real and Analysis
    - CS: Relational and NoSQL Databases, Java Development, Data Structures, Discrete Structures
    - Economics: Econometrics
- Proficient in: Python (esp. Pandas, Sklearn, Numpy, Matplotlib, Requests, Multiprocessing), Java, C++, STATA, Matlab
- University Endowed Scholarship

EXPERIENCE

Software Development Intern   May 2020 – Present
Sandia National Laboratory   Livermore, CA
- Develop and debug computational modeling software in Java
- Worked with a team of engineers to create in-depth patches and extensive unit tests for legacy software projects with national security impacts
- Added features to optimization algorithm to expand parameters, weighting options, and results visualization.

Research Assistant   Oct 2016-July 2017, Sep 2019-Present
BYU Record Linking Lab   Provo, UT
- Engineered features and blocking strategies to algorithmically link historical records between large datasets, including national censuses and Social Security records.
- Developed, lead, and executed an in-depth study on relations between historical economic conditions and divorce rates in Utah and Nevada.
    - Created API and Webscraping tools to add over 10,000,000 records to and retrieve data from online databases.
    - Used recovered census data to create measures of family stability on county and state levels. Analyzed economic data to remove exogenous variation from the model.
- Designed and optimized algorithms to identify and classify tasks to improve user experience on FamilySearch.org.

Software Development Intern   June – August 2016
Graphic Products, Inc   Tigard, OR
- Created an automated JavaScript testing process for programs in development:
    - Wrote an interface to allow scripts to remotely control the main program's GUI.
    - Created a series of unit tests to verify functionality of each program element after a new commit.
- Completed language localization process for an internationally distributed software suite.

VOLUNTEER EXPERIENCE

Student Peer Mentor   Sep 2019-Present
- Tutored one-on-one with disadvantaged 6th-graders from nearby schools

Full-Time Volunteer   Aug 2017-Aug 2019
- Worked full-time in the Philippines with a broad range of ecclesiastical and administrative duties.
- Organized and presented trainings for groups of 30-150 volunteers.
- Managed expenditures, receipts, and budget of 180-member organization.