CAMERON ZURMUHL

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EDUCATION

School: Lafayette College, Easton PA   **Fall 2016 – Present**

Major: Computer Science, B.S.
Minor: Mathematics
GPA: 3.77
Graduation Year: 2020

Marquis Scholarship Recipient (Select Merit Scholarship for 10-15% of class)
Dean's List all semesters

Relevant Coursework: Data Structures and Algorithms, Computer Organization, Design & Analysis of Algorithms, Software Engineering , Probability, Statistics, Database Management Systems (current), Independent Study: Machine Learning (current)

Technical Skills: Java 8, C++, R, Git, Microsoft Office Suite, currently learning Python 3 and SQL, familiar with UNIX environment and Bash command line

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PROJECTS

Full project portfolio and writing samples available at: https://github.com/20zurmca

Optimizing a Traveling Salesman Scenario (Java)
  ➢ Using a greedy approach, I designed a simulation for a truck driver to deliver all cargo for the day and return to the dispatch location in the shortest distance possible.

Creating a Coffee Shop Simulation (A Discrete Event Driven Simulation in Java)
  ➢ Modelled customers coming into a coffee store according to a Poisson process and employed queuing theory to greedily serve the most customers in a day and optimize profits.

Designing an Assembler, Linker, and CPU simulation (Java)
  ➢ Designed a simulation of an assembler, which parsed ARM assembly code, which would generate an object file that could be used by a CPU simulator to decode the object file and perform actions all displayed in a GUI.

2016 Election Data Visualization (Processing)
  ➢ Used Processing to visualize the 2016 presidential debate transcripts and search popularity.

WORK HISTORY

Statistical Consultant for The Third Street Alliance   **April-June 2018**
  - ➢ Performed statistical analysis for the Third Street Alliance: a homeless shelter in Easton, PA.
  - ➢ Used R to perform difference in proportions hypothesis testing to analyze possible explanatory variables for homelessness.

Lab Teaching Assistant at Lafayette College   **Spring Semester 2018**
  - ➢ Teaching Assistant for an introductory computer science course (Digital Media)
  - ➢ Assist students in object-oriented design, modularization, and the process of program-writing

Peer Tutor at Lafayette College   **Fall Semester 2017-Present**
  - ➢ Tutor students in Data Structures & Algorithms and multivariate calculus

Summer Assistant at Centennial School District   **June-August 2017 & 2018**
  - ➢ Assist the school district's building supervisors in landscaping and maintenance for the upcoming school year.

VOLUNTEER

William Tennent High School Speech and Debate Team   **2016-Present**
  - ➢ Assistant Coach
  - ➢ I teach adolescents how to write effective argumentative essays, and how to give a clear presentation
  - ➢ I assist in and teach academic research on selected topics

EXTRACURRICULAR

Wharton Fintech Hackathon   **February 2018**
  - ➢ Attended a hackathon sponsored by TD Bank and designed a graphical user interface model in Java that would help train new employees when interacting with clients.

Hawai'i Volcanism Studies   **January 2018**
  - ➢ Spent my winter interim period in Hawaii to study the properties of volcanoes and how ergodic reasoning can be used to relate the islands.