

# 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, Knowledge of UNIX environment and Bash command line

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## PROJECTS

Full project portfolio and writing samples available at: <https://github.com/20zurmc>

### **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.
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## 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.

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## 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

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## 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.