

# CHRISTIAN SHADIS

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## EDUCATION

### **B.S. in Computer Science & Mathematics | Worcester State University**

*Concentrations: Software Development, Big Data Analytics, Statistics & Modeling*

SEPTEMBER 2018 – MAY 2022

Cumulative GPA: **3.953**

#### **Relevant Coursework**

- Data Mining
- Data Structures
- Data Analysis
- Calculus I, II, III
- Cloud, Parallel & Dist. Computing
- Capstone Experiences
- Probability and Statistics
- Number Theory
- Discrete Structures I, II
- Software Constr., Des., & Arch.

#### **Programming Languages (in order of familiarity)**

- Python 3
- R
- Java

## WORK EXPERIENCE

### **Discrete Mathematics Tutor | JANUARY 2021 – MAY 2022**

Tutored: Sequences, series, induction, recursion, proofs, functions, and set theory

### **Undergraduate Summer Research Fellow | MAY 2021 – AUGUST 2021**

Created a reporting tool capable of studying racial and human equity in the STEM dept.  
Refactored R scripts to improve functionality, visualization design, and efficiency.

### **IT Support Technician | Percy's TV and Appliance | JUNE 2018 – MARCH 2020**

IT troubleshooting, printer server and Windows 10 configs, and assisted the IT Director with various rollouts of new software systems and hardware.

## TECHNICAL SKILLS

- Data visualization & analysis
- Object-Oriented Programming
- Machine Learning
- Docker
- SQL
- Version Control

## SOFT SKILLS

- Clear communication
- Leadership
- Initiative
- Time management
- Persistence
- Attention to detail

## HONORS AND AWARDS

- **Bay Path RVTHS Valedictorian (2018)**
- Worcester State Foundation Academic Major Award in Computer Science
  - o Highest graduating senior GPA in Computer Science
- Worcester State Foundation Academic Major Award in Mathematics
  - o Highest graduating senior GPA in Mathematics
- Worcester State University Presidential Scholarship (2018-2022)
- Worcester State University Dean's List (all enrolled semesters)
- Phi Eta Sigma National Honor Society (April 2019)
- 1<sup>st</sup> place - MA DECA Sports and Entertainment Promotion Plan (2018)
- 1<sup>st</sup> place – MA SkillsUSA Career Pathways: Business, Management and Technology (2017)
- Worcester County Superintendent's Association Scholar Award (2018)
- President's Award for Educational Excellence (2018)
- Leadership in Mathematics (2018)
- National Honor Society (2016-18)
- Southbridge Rotary Club Certificate of Academic Achievement (2018)

## PROJECTS

- Big Data Analytics Capstone Experience (2022)
  - o Analyzed large EPA dataset examining air quality in the US in the 21<sup>st</sup> century using time series visualization, hypothesis testing, regression & cluster analysis
- Software Development Capstone Experience (2022)
  - o Rebuilt a RESTful API and backend with five other programmers in an Agile environment to allow a community of food pantries to retrieve food safety information
- Mathematics Major Capstone Experience (2021)
  - o Developed and optimized Keras Sequential Convolutional Neural Network to classify an image of a skin lesion as melanoma or not with 62% accuracy
- WPI Launch: Python Programming (2021)
  - o Assisted instruction of incoming high school students in fundamental Python coding

## REFERENCES

*Provided upon request*