

# Jason Kotula

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## **OVERVIEW:**

I am a positive, hardworking, and very determined individual studying to earn a B.S. degree in Computer Science and a minor in Mathematics. I am motivated and task-driven with the ability to work well in a group or an individual setting.

## **EDUCATION:**

**Salisbury University – Henson School of Science and Technology**

*Candidate for Bachelor of Science Degree; Computer Science*

*Candidate for minor; Mathematics*

- Cumulative GPA: 3.39/4.0
- Dean's list Salisbury University

**Salisbury, MD**

*May 2018*

*Fall 2015, Fall 2017*

## **PROFESSIONAL EXPERIENCE:**

**Salisbury University Mathematics and Computer Science Emporium**

*Tutor*

**Salisbury, MD**

*Jan 2016 – May 2017*

- Tutored students in various 100, and 200 level mathematics and computer science classes.
- Guided students through various class projects in Java and C++.
- Evaluated requirements of the project and worked with students to set a course of action for completion.
- Established an agile approach with students that required more intense tutoring.
- Performed trouble shooting of student's code.
- Improved problem solving skills.
- Helped students solve various math problems from basic algebra to calculus and discrete mathematics.
- Enhanced communication skills in answering and explaining questions in ways that adhered to different students and different types of learning capabilities.

## **IHOP**

*Server/Host*

**Mt. Airy, MD**

*June 2014 – Present*

- Dependable, professional attitude and work ethic.
- Effectively communicated and served customers.
- Responded and resolved complaints and other issues in timely manner.
- Successfully managed multiple tasks with proper time management.

## **Mount Airy Inn**

*Busser/Host*

**Mt. Airy, MD**

*August 2013 – June 2014*

- Greeted guests and accompanied them to their seats.
- Distributed workloads for servers.
- Refined organizational skills.
- Developed organizational skills.
- Gained experience working as part of a team to complete tasks.

## **EXTRACURRICULAR ACTIVITIES:**

- Gull Code coding competition
  - Gained experience coding in strict time constraints and pressure.
  - Solved mathematical and logical problems using C++ and Java.
- Men's club volleyball

## **VOLUNTEER EXPERIENCE:**

- Youth football coach and assisted recreational football coaches.
- I love Salisbury – Participated in community wide event to clean up public, private, and non-profit properties.

## **COURSE WORK:**

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### **Programming Fundamentals**

- Solving problems by designing, implementing and testing algorithms.
- Object-oriented programming done in Java.

### **Computer Science I**

- Step-by-step approach to problem solving, modular structured design, and structured programming in C++.
- Emphasis on production of readable, well documented, and efficient programs.

### **Computer Science II**

- Object-oriented approach to design and implementation of medium to large software projects.
- Abstract data types including lists, stacks and queues.
- Design trade-offs based on analysis of run time and storage.

### **Advanced Data Structures and Algorithm Analysis**

- Continuation of the study of the design, implementation and testing of programs.
- Further study of object-oriented programming in C++.

### **Database Implementation**

- Physical design and implementation of databases.
- Query algorithms and efficiency optimization.
- Experience with MySQL database management system.
- Designed and connected website to database using PHP.

### **High-Performance Computing**

- Principles and practice of parallel distributed computing.
- Built and configured multi-node cluster with Debian 7 OS, Warewulf provisioning software and Ganglia monitoring system.
- Parallel programming using Open Mpi.

### **Web Development**

- HTML tags and how to format a webpage.
- Experience styling a webpage using CSS.
- Experience using JavaScript to make webpage interactive.

### **Software Engineering**

- Learned theories and concepts behind agile software development.
- Experience working in team for long term project.
- Learned how to conduct risk and time analysis.
- Created web app to categorize storms into storm intervals and then route around predicted flooded roads in Ocean City MD based on storm intervals.
- Gained additional experience coding in HTML.
- Gained experience working with JavaScript api calls.

### **Computer Networks**

- Learned about the network edge, network core, delay, loss, throughput and protocol layers.
- Experience tracing message exchanges between executing protocol entities using Wireshark.
- Experience in socket programming using python.