

# CSC 468 Cloudlab Project

Sayo Ade-Oyetayo, David Desjardins, Jason Kost, Andrew Roche, Mayur Suresh

**Adesayo Ade-Oyetayo**

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**EDUCATION**

**MAY 2022**

**WEST CHESTER UNIVERSITY**

*BACHELOR OF SCIENCE IN COMPUTER SCIENCE*

*MINOR IN APPLIED STATISTICS*

*COMPUTER SECURITY CERTIFICATE*

**EXPERIENCE**

**JUNE 2014 – CURRENT**

***OFFICE ASSISTANT, MARJOY VENTURES***

COLLINGDALE, PA

- Performed various office tasks, such as answering phones and faxing and printing as well as engaging with customers and their needs.

**JULY 2017 – OCTOBER 2017**

***BRAND ASSOCIATE, OLD NAVY***

DARBY, PA

- In charge of keeping clothing sections organized and fully stocked.
- Helped customers with their clothing questions and needs.

**AUGUST 2018 – OCTOBER 2018**

***SALES ASSOCIATE, WEST CHESTER UNIVERSITY BOOKSTORE***

WEST CHESTER, PA

- Worked the cash register.
- Assisted students in finding books and materials for select classes.

**AUGUST 2019 – CURRENT**

***RESIDENT ASSISTANT, WEST CHESTER UNIVERSITY***

WEST CHESTER, PA

- Facilitate a community atmosphere which is conducive to the academic, social, and personal development of residents.
- Enforce university policy to ensure safety and wellbeing of residents.

**EXTRACURRICULAR INVOLVEMENT**

**JANUARY 2013- CURRENT**

***VOLUNTEER, CHRIST TEMPLE WORLD OUTREACH CENTER***

DARBY, PA

- Volunteer with feeding the surrounding community.
- Assist and lead in teaching the youth and creating events centered around youth in the surrounding area.

## SKILLS AND QUALIFICATIONS

- Fluent in English and Yoruba, Basic understanding in Spanish
- Trained in FISH Philosophy
- LGBTQIA+ Advocacy Training
- Mental Health First Aid Certification.
- Python
- Java
- Haskell

**David Desjardins**  
8 Hickory Drive, Glen Mills PA

David\_A\_Desjardins@mac.com  
610-425-8084

## **Education**

***West Chester University, West Chester PA***  
***Bachelor of Science in Computer Science***  
***Computer Security Certificate***  
Expected graduation spring 2022

- 3.88 GPA
- Dean's list every semester

## **Skills**

- Java
- C
- Python
- Linux
- Cloud computing
- Git
- Ocaml
- Assembly
- Powershell

## **Experience**

**Busser/Food Runner** 06/2017 - 11/2018

AMC Dine-in Theaters

112 Wilmington Pike, West Chester, PA 19382

- Responsible for cleaning the movie theaters in between each showing as well as bringing food to people in theaters
- Promoted to busser lead after good results

**Bartender/Cocktail Server**

AMC Dine-in Theaters

112 Wilmington Pike, West Chester, PA 19382

- Prepared cocktails to order for guests in the theaters
- Communicated with customers at the bar and filled their orders

**Cyber Security Intern** 05/2021 - 08/2021

Penn Medicine Cyber Security Team

3400 Spruce Street Philadelphia, PA 19104

- Helped implement change in USB policy through CrowdStrike using java and splunk queries
- Helped find off domain windows servers using windows powershell
- Helped identify unenrolled DUO users and helped them enroll
- Shadowed many different employees to learn about their jobs
- Participated in biweekly Penn test security challenges
- Trained using SANS and tryhackme

**IT temp** 02/2022 - current

Bellevue Community Center

510 Duncan Rd, Wilmington, DE 19809

- Helped with various IT related projects and consultations

**Jason Kost**

3 Wensel Circle, Schwenksville PA

jasonkost256@gmail.com

215-859-1232

**Education**

**West Chester University**, West Chester PA

*Bachelor of Science in Computer Science*

Minors in Mathematics and Civic & Professional Leadership

Expected Date of Graduation May 2023

- Member of the Honors College
- Dean's List every semester

**Skills**

- Strong understanding of Object-Oriented Java Programming.
- Experience navigating computer systems, operating within LinuxOS, and working in C, Python, and Ocaml programming languages.

**Leadership Experience**

**Friar's Society**, West Chester University, PA

Member - *11/21-Present*

- Service organization assists local groups including but not limited to Holiday Family, Holy Trinity Church, and the Community Warehouse Project.

**Work Experience**

**Music Service Learning**, West Chester, PA

Grant Writing - *09/2021 - 12/2021*

- Collaborated with writing team to produce grant request of \$5,000.
- Independently researched and produced literature review on the value of paid internships.

**Waltz's Golf Farm**, Limerick, PA

Manager, Batting Cages - *04/2021 – 08/2021*

- Scheduled all employees.
- Handled all daily finances. Counted and reported income.
- Operated, maintained, and repaired all machinery.
- Addressed all employee and customer concerns and disputes.
- Learned complete work independence.

**Waltz's Golf Farm**, Limerick, Pennsylvania

Cashier/ Food Server - *05/2018 – 11/2020*

- Managed money, required responsibility and strong attention to detail.
- Communicated with customers and addressed customer concerns.
- Maintained facility, responsible for upkeep.

## **Andrew Roche**

306 Surrey Pl. Macungie, Pa 18062 ▪ 484-273-6830 ▪ aroche11@ptd.net

### **EDUCATION**

**(Pursuing) Bachelor of Science in Computer Science**

➤ **Computer Security Certificate**

**Major: Computer Science**

**Focus: Computer Security** (Security Engineering)

West Chester University, *West Chester, PA*

*College of Science and Mathematics*

Accredited by the National Security Agency and the Accreditation Board for Engineering & Technology

College of the Sciences and Mathematics Dean's List for the 2020 Fall Semester.

Current GPA: 3.2

**High School Diploma:** June 10<sup>th</sup>, 2018

Emmaus High School, *Emmaus, Pennsylvania*

**Student Athletic Honors:** All-Division, All-Area Team in junior and senior year of varsity football.

### **WORK EXPERIENCE**

**Facility Maintenance,** May 2019- August 2019

Lower Macungie Township

3400 Brookside Rd, Macungie, PA 18062

- Provided upkeep for all the facilities and properties owned by the township
  - Painted, cleaned, and mulched the playgrounds
- Infrastructure repairs
  - Used power tools and some machinery to fix and maintain property
  - Roofing/siding
  - Playground equipment removal
  - Industrial power washing

**Deli Worker,** March 2018- August 2018

Giant Food Store, Macungie, PA 18062

- Dealt with customer service and communicated accommodations with customers for every order.
- Helped train new employees.
- Had to work efficiently and multi-task to keep up with large customer flow.
- Prepared and cut meat/cheese slices, salads, and cooked chicken.
- Communicated and collaborated with co-workers for various job duties.
- Self-closer responsibilities
  - Full department sweep (cleaning everything)
  - Counting inventory

### **COMMUNITY SERVICE/ VOLUNTEER EXPERIENCE**

**Set-up helper/ticket seller,** Citizens Fire Co. #2, Emmaus, PA (July 19-21, 2016- 2020)

- Helped organize budget plan
- Worked on hiring best entertainers at the lowest cost.
- Helped with pricing for food and games.
- Set up food stands and tents

- Assisted parking and running ticket booth

## **Technology Skills**

**Programming:** Began writing with Java.

- Designed, implemented and evaluated secure network systems.
  - Analyzing different kinds of attacks (Stack overflow, Format String, ROP, Return-to-libc, GOT Overwrite, etc.)
  - Studied some basic defense mechanisms like ASLR and StackGuard, and how hackers can disable/avoid them.
- Object-oriented programming
- Designed and implemented algorithmic solutions to program problems and testing those solutions.
  - Implemented recursion, lists, stacks, queues, linked lists, trees, hashing, searching and sorting algorithms, and the evaluation of algorithm efficiency.
- Worked with arrays and arrays of objects, sorted, and searched through arrays, recursion, and aggregate objects.
- Later introduced to C and Python.
- Familiar with assembly language for IA-32 compatible processors and how to read compiler-generated assembly language code.
- Gained an understanding of being able to manipulate the byte-representation of different data types (int, float, char...)
- Able to understand how processes are loaded into memory and memory placements of stack, heap, and code within the virtual memory, as well as the tradeoff in accessing data stored in various memory hierarchy levels.
- Able to understand how to perform various debugging and optimization techniques.
  - Use of reverse engineering to study malicious software, and its legal implications.

**Cloud Computing:** Some experience with both Amazon AWS and Microsoft Azure.

- In 2019, I participated in a decentralized network, known as NYZO, by running verifiers (via AWS and Azure cloud services) that would verify blocks and build the actual blockchain once it is reached in the cycle of verifiers. (Cycles to ensure the best possible diversification of earnings)

**Systems:** Windows with Linux experience.

- Able to run Linux via a virtual machine, as well as an understanding of how simple network communication works within the Linux operating system.



# —○ Mayur Suresh ○—

Software DEVELOPMENT

## CONTACT

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West Chester PA

## CERTIFICATIONS

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- PCEP
- COMPUTER SECURITY CERTIFICATE FROM THE DEPARTMENT OF SCIENCES AND MATHEMATICS
- COMPETITIVE PROGRAMMING COURSE
- COMPUTER SYSTEMS COURSE

## PROGRAMMING Languages

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- JAVA
- PYTHON
- C/C++
- HTML/CSS/BOOTSTRAP
- JAVASCRIPT (CURRENTLY LEARNING)
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## SKILLS

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- MULTI-TASKING
- COMMUNICATION
- TIME MANAGEMENT
- FLEXIBLE
- OPEN-MINDED
- QUICK LEARNING HABIT

## EDUCATION

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West Chester of Pennsylvania

## EXPERIENCE

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2020-2023

Bachelor of Science in Computer Science

College of Sciences and Mathematics

Accelerated Master's Program

Dean's List – Fall of 2021

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## West Chester of Pennsylvania

2023-2024

Master of Science in Computer Science

College of Sciences and Mathematics

- SURI – RESEARCH PROJECT IN THE DEPARTMENT OF SCIENCES AND MATHEMATICS (PLANNING ON DOING IT THE SUMMER OF 2022)
- [HTTPS://GITHUB.COM/MAYSURESH/KATTIS](https://github.com/maysuresh/kattis)
- WEBSITE IN PROGRESS (BUILDING WITH HTML/CSS AND JAVASCRIPT)

When trying to parse through large quantities of data, analysts must effectively accumulate, organize, and display their gathered information in an orderly way. In research, it can be quite cumbersome and time consuming to analyze individual resources, looking for information that can be used only to realize that what you, the user, is looking at will not help. This is especially the case when a single resource holds a mass amount of information. Even with desirable information comes the process of copying the information, and placing it in some cloud of information bank manually, one piece at a time. If any given information will be reviewed later on by outside parties, the added requirement of creating an easy-to-access easy-to-view user interface goes beyond what should be expected of a researcher.

Addressing such challenges first requires a program to gather intended data, pulling from a source only what is needed, based on a predetermined filter. With data being collected and gathered comes a need for streaming and storing the data into an easily accessible information bank. A periodic updating gathering and streaming program limits the necessary intervention of a researcher, removing the requirement to slowly and inefficiently update their bank as new information comes in. Finally, once all information is adequately stored, sorting and displaying the information to the user allows for proper analysis, which adjusts based on how much information is streaming into the bank. The group intends to link these steps by seamlessly gathering useful data (whose content is yet to be determined), streaming data into a cloud storage platform, and creating an effective UI which permits ease of access to viewers who wish to analyze information.

The cloud structure, specifically SaaS design, allows for reliable saving and backing up of data, preventing the potential loss of information that might occur if the bank was saved on a single device. Dynamically updating the space required to house the data is a benefit of the cloud, taking only what is needed. The SaaS design permits users to use a browser, and basic customizability lends itself to dynamic additions of information.

The process above will help users avoid the hassle of looking through a massive amount of useful and useless information alike, and slowly transcribing the useful data into a data bank. By creating a program which can identify and filter for useful information, and immediately send that information into an easy-to-read and displayable data bank saved on a cloud, users save time and energy on research and analysis.