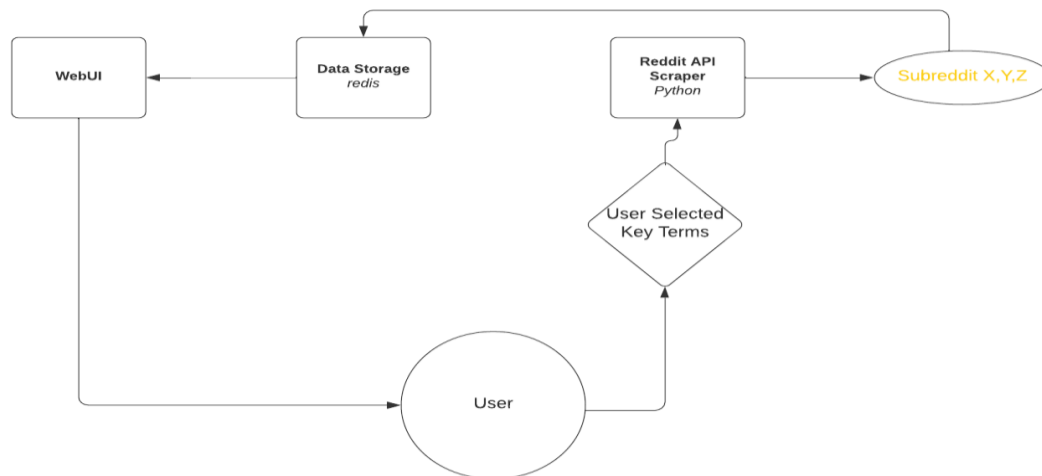


CSC 468 Cloudlab Project

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

Paragraph 1



Paragraph 2

In the year 2022, the public cannot assume the news stories will originate from mainstream news sources. Information across internet sites abounds, and breaking stories often arise on online message boards directly from the source before they reach mainstream network news channels. While the public may wish to read or learn about current stories, gathering information from the internet proves a cumbersome task for an individual, given the sheer amount of news one could obtain from numerous places on the internet.

Reddit is one such board which not only receives news updates first, but oftentimes is itself the source of noteworthy trends and stories, whether they be political, social, or economic. As a place of interest, the public requires means to readily access relevant posts, comments and stories as they break. The proposed software solution to this problem operates in three distinct pieces – an API Reddit scraper, a redis data storage bank, and a User Interface – all with the end goal of easily gathering relevant stories from relevant subreddits and delivering them directly to the user. The API Reddit scraper takes a list of subreddits, and uses keywords provided by the user to gather all pertinent information surrounding the provided topic, for the viewers pleasure. The feature provides users the opportunity to learn about news from Reddit they wish to learn about, instead of relying on a news network to cover it – something not guaranteed. The selected subreddits, chosen by the software designers, ensure a wide variety of opinions on one given subject, so as to mitigate subreddit bias.

The Data Storage is designed around the concept of key terms, which the user selects, and holds the gathered information after it is filtered. Finally, the user interface ensures the user the opportunity to filter information, while presenting them with a display that is easy to navigate and understand. The three-piece program aims to get Reddit news – what people are talking about, what people are commenting on, and so on – to the user, based on what they wish to view. 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 can save themselves browsing time, without compromising their news intake.

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 10th, 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



610-864-6804



suresh.mayur.2002@gmail.com



West Chester PA

CERTIFICATIONS

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

PROGRAMMING LANGUAGES

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

SKILLS

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

EDUCATION

West Chester of Pennsylvania

2020-2023

Bachelor of Science in Computer Science

College of Sciences and Mathematics

Accelerated Master's Program

Dean's List – Fall of 2021

West Chester of Pennsylvania

EXPERIENCE

- 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)

2023-2024

Master of Science in Computer Science

College of Sciences and Mathematics