

Clifford Y. Davis IV

(Chip Davis)

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EDUCATION

DePaul University, Chicago, IL — *Bachelor of Science in Computer Science*

September 2018 - June 2022

College of Computing and Digital Media

GPA: 3.66

Christian Brothers High School, Memphis, TN — *High School Diploma*

August 2014 - May 2018

GPA: 3.52

DEPAUL SUMMER 2021 RESEARCH GRANT

Bridging AI/UX Research Grant totaling \$10,500:

[Tweet N' Sour](#)

This Summer, my team and I were awarded a research grant from DePaul University which aims to bridge a gap between AI and UX. We decided to develop a Google Chrome extension for Twitter that will use AI to hopefully combat the misinformation and fake news that is rampant on the platform. The extension will use sentiment analysis in order to analyze replies to tweets to give users as much information regarding a tweet as possible. In this way, we hope it will help users know that if the community is largely reacting negatively to a tweet, they should perhaps take a closer look at its message.

WHO'Z THE BOSS MUSIC LIBRARY INTERNSHIP

This summer (July 21-Present) I have been working as an intern at Whos'z The Boss Music Library. I am responsible for automating the entire registration and upload process for the library. Primarily using Python 3 and Pandas, I migrate metadata and transform it to fit the appropriate shape required.

PROJECTS AT UPWORK

[Chip D. - Software Developer \(Python & Java\)](#)
[Github](#)

Twitter Bot:

My first job at Upwork was for a client who requested a twitter bot to monitor tweets coming from certain accounts. The client wanted the bot to monitor every NBA player and retweet any tweets that met keyword

SKILLS

Proficient in **Microsoft Word**

Proficient in **Windows**

Proficient in **Linux**

Proficient in **Docker**

Proficient in **Self Hosted Apps**

Proficient in **VSCode**

Proficient in **Python**

Proficient in **Git/Version Control**

Knowledgeable in **Java**

Knowledgeable in **C**

Knowledgeable in **SQL /
Relational Databases**

Knowledgeable in **Rust**

Knowledgeable in **JavaScript,
React, Node**

Knowledgeable in **Functional
Programming languages (Scala)**

Knowledgeable in
HTTP/CSS/Internet Protocols

Knowledgeable in **Object Oriented
Programming**

Knowledgeable in **Data Structures**

AWARDS

Achieved **DePaul Scholars**

Scholarship (\$72,000) September
2018-June 2022

WORK EXPERIENCE

criteria particularly pertaining to NBA Topshot. I wrote the bot in Python using a library called Tweepy and installed it on a Google Cloud VM instance. I created a cron job for it so that the program would automatically stop after certain hours and then turn back on the following morning.

Food handler and cashier
Sprinkle's Cupcakes
AUG 2019–NOV 2019

Freelancer at UpWork.com
February 2021–Present

Excel to PDF Generator:

A psychologist and his team required an application to export the data from their studies. They required an individual PDF report derived from every row on the excel sheet. They required it to be flexible and work with any format that they might have in the future. They also required it to have a graphical user interface. Again, this was written in Python using Pandas and the GUI was developed using DearPyGUI.

XML Restructuring:

This was a relatively simple project involving manipulating XML trees for the client.

Stock Market Indices Scraping:

The client for this job had a list of twenty to twenty five stock market indexes. He needed the program to scrape websites like Wikipedia to gather all of the components of each index (i.e S&P 500). This was written using Python, Requests, and BeautifulSoup4. The client wanted each function to be callable from his codebase so I made each function a static method of a class so they can be called without requiring an instance of the class.

PDF Optical Character Recognition:

This project involved taking PDFs from a client (books such as Harry Potter, And Then There Were None, etc) and performing OCR on the PDF followed by cleaning and sorting the data. The data was cleaned using Regex and was organized by word, line, and page in a JSON file. The client runs a business selling magic tricks and this will be incorporated into a future trick.

Crypto Scraper:

This is an ongoing project I have with a client. It started with a list of 150 Venture Capitalists. The client wanted every one of their websites to be individually scraped and to keep track of what Crypto/Blockchain technology each VC was invested in. He also wanted a compiled list of every Crypto with a count of how many times it had been seen. Finally he wanted it outputted into an excel sheet. This was written using Python, BS4, Pandas, and Webbot / Selenium for sites that were too dynamic for BS4.

DEDICATED COURSE EXPERIENCE

Intro to Computer Science I, Intro to Computer Science II DePaul University, Chicago, Illinois, September 2018–November 2018, January 2019–March 2019

Applied Networks and Security, DePaul University, Chicago, Illinois, September 2018–November 2018

Intro to Local Area Networks, DePaul University, Chicago, Illinois, January 2019–March 2019

Discrete Mathematics I, **Discrete Mathematic II**, DePaul University, Chicago, Illinois, March 2019–June 2019, September 2019–November 2019

Data Analysis, DePaul University, Chicago, Illinois, September 2019–November 2019

Data Structures I, **Data Structures II**, DePaul University, Chicago, Illinois, September 2019–November 2019, January 2020–March 2020

Sophomore Lab in Applied Computing, DePaul University, Chicago, Illinois, January 2020–March 2020

Design/Analysis of Algorithms, DePaul University, Chicago, Illinois, March 2020–June 2020

Computer Systems I, **Computer Systems II**, DePaul University, Chicago, Illinois, March 2020–June 2020, September 2020–November 2020

Program Language Concepts, DePaul University, Chicago, Illinois, September 2020–November 2020

Distributed Systems, DePaul University, Chicago, Illinois, January 2021–March 2021

