Clifford Y. Davis IV

(Chip Davis)

Redacted
Chicago, IL 60661
(901) 834-4495
chip@chipdavis.dev
Website

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

Work Experience

CROWE LLP

June 22 - Present

At Crowe LLP, I am a member of the Financial Services Internal Audit Technology department. I am responsible for interfacing directly with our clients in order to ensure that their Cybersecurity standards are adequate. I perform Cybersecurity Audits to ensure proper controls and risk assessments are in place to protect both the client and their customers. I also help write the software and scripts that we use in our penetration testing department to ensure quick and efficient engagements.

FREELANCE SOFTWARE ENGINEER @ UPWORK

February 21 - June 22

At Upwork, I completed a wide variety of projects for my clients. It offered me my first experience of getting paid for Software Development. Most of my projects were written in Python and included automation, web scraping, optical character recognition, and more. Details regarding my projects are listed below.

DEPAUL SUMMER 2021 RESEARCH GRANT

Bridging AI/UX Research Grant totaling $10,500:
Tweet N' Sour
My team and I were awarded a research grant from DePaul University which aimed to bridge a gap between AI and UX. We developed a Twitter Bot that uses AI and Sentiment Analysis in order to analyze replies to tweets to give users as much information regarding a tweet as possible. In this way, we hoped it will help users understand community responses to tweets as we believed the Twitter algorithm promotes negative or polarizing responses which may not reflect the actual overall sentiment.

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**

Knowledagable in **Rust**

Knowledgeable in **JavaScript, React, Node**

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

Knowledgeable in **HTTP/CSS/Internet Protocols**

Knowledgeable in **Object Oriented Programming**

Knolwedable in **Data Structures**

AWARDS

Achieved **DePaul Scholars Scholarship** ($72,000) September 2018-June 2022

WHO'Z THE BOSS MUSIC LIBRARY INTERNSHIP
July 21 – September 21

I worked as an intern at Whos'z The Boss Music Library and was responsible for automating the entire registration and upload process for the library. Primarily using Python 3 and Pandas, I migrated metadata and transformed 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 the keyword 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 the program would automatically stop after certain hours and then turn back on the following morning.

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.

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.