

# Sebastian Ashcallay

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## PROFESSIONAL GOAL

Obtain a professional position or internship in a software development team, where I can utilize the skills and educational knowledge I gained during college.

## EDUCATION

### **University of Maryland-College Park, College Park, MD**

Major: Computer Science (B.S.)

Minor: Mathematics

- Study of Programming Languages
- Algorithms

Jan. 2024 — Dec. 2025 (Expected)

GPA: 3.675

### **Montgomery College, Rockville, MD**

Major: Computer Science (A.A.), with Honors

- Object-Oriented Programming
- Discrete Structures
- Knowledge of Computer Systems
- Knowledge of Java Programming
- Proficient in Python Programming

Aug. 2022 — Dec. 2023

GPA: 4.0

## CERTIFICATIONS

**Relational Databases Developer Certification**, FreeCodeCamp

**Responsive Web Design Developer Certification**, FreeCodeCamp

Issued: July 2024

Issued: August 2024

## LANGUAGES/TOOLS

- |                             |              |                      |
|-----------------------------|--------------|----------------------|
| ▪ Java (Eclipse)            | ▪ PostgreSQL | ▪ OCaml              |
| ▪ Python (Jupyter Notebook) | ▪ HTML       | ▪ Bash (Linux shell) |
| ▪ C                         | ▪ CSS        | ▪ Git                |

## PERSONAL PROJECTS

### **Sports Analysis Program Repertoire**

Feb. 2023 — Jun. 2024

*Programming Language: Python (IDE: Jupyter Notebook)*

*Role: Co-creator, Web Designer*

- Built 4 Python programs to assess and display the impact of video-assistant refereeing in a European national soccer competition: England's Premier League.
- Developed code to scrape standings, team information, and game statistics from ESPN and stored it remotely on GitHub as a collection of CSV files. Used Requests and HTML2Text modules for web scraping.
- Used NumPy and Matplotlib modules to generate animated bar and plot graphs.
- Produced and stored code using Jupyter Notebook.
- [Personal] Created and deployed a public website to showcase our findings from using the Python programs.
  - Used HTML, CSS, and JavaScript to write the code. Used Netlify to deploy the website.

### **Sports Database Project**

Jun. 2024 — Present

*Programming Language: PostgreSQL, Bash*

*Role: Creator*

- Built a PostgreSQL database that contains four main tables for video-assistant refereeing decisions, decision types, tournament games, and participating teams of several South American leagues.
- Translated data from SofaScore to create feeding four CSV files for the database.
- Built a Bash script to manage this database locally.
  - The script is used to access and query from the database.
  - The script accounts for other purposes: building, restoring, updating, and printing information.

## **PROFESSIONAL EXPERIENCE (TUTORING)**

### ***C2 Education, Bethesda, MD***

Sep. 2024 — Present

#### *Math Tutor*

- Work weekly between three days, three 2-hour sessions per day, and 1-3 students per session
- Develop and implement lesson plans for SAT preparation, providing practice exams and question banks
- Assist K-12 students with schoolwork in the following STEM subjects:
  - Geometry, Algebra II, Pre-Calc, Calculus I & II, Physics I & II
- Observe and assist other math tutors during their sessions and if available

### ***Varsity Tutors (Remote)***

Jun. 2024 — Present

#### *Tutor*

- Registered to tutor K-12 students, college students, and adults in the following areas of study:
  - Math, Spanish, Programming
- Write and share lesson plans through Google Docs in both Spanish and English
- [*Programming*] Use IDEs such as VSCode to demonstrate coding examples
- [*Spanish*] Practice conversation prompts in different contexts: shopping, classroom, celebrations, etc.
- [*Spanish*] Create and distribute vocabulary, reading comprehension, and listening homework activities

## **PROFESSIONAL EXPERIENCE (OTHER)**

### ***Ethridge, Quinn, Kemp, Rowan & Hartinger (Law Firm), Rockville, MD***

Apr. 2023 — Jan. 2024

#### *Receptionist*

- Worked as a receptionist for a law firm of over 10 lawyers during weekday office hours
- Received and attended clients, outside lawyers, and court personnel inside the main branch's offices
- Offered translation to clients and lawyers for conversational purposes (Spanish/English)
- Answered calls and took messages from current and potentially new clients (Spanish/English)
- Delivered documents to Montgomery County Circuit Court and Maryland District Court
- Scheduled and supervised business-related services during office hours: equipment maintenance, hauling, shredding
- Extensively used Microsoft Office, primarily Word, Excel, and Outlook, for in-office communication, client data management, and scheduling meetings