

# Sebastian Ashcallay

Rockville, MD

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## PROFESSIONAL GOAL

Motivated computer science student with hands-on experience in software development, data processing, and web technologies, seeking to contribute to impactful software solutions as part of a dynamic development team.

## EDUCATION

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

Major: Computer Science (B.S.)

Minor: Mathematics

Jan. 2024 — Dec. 2025 (Expected)

GPA: 3.4

- Artificial Intelligence
- Computer Vision
- Programming Handheld Systems
- Data Science
- Applied Linear Algebra
- Calculus III

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

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

Aug. 2022 — Dec. 2023

GPA: 4.0

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

## CERTIFICATIONS

**Relational Databases Developer Certification**, FreeCodeCamp

Issued: July 2024

**Responsive Web Design Developer Certification**, FreeCodeCamp

Issued: August 2024

## TECHNICAL SKILLS

**Languages:** Python, Java, C, OCaml, Bash, Dart

**Web:** HTML, CSS, JavaScript

**Framework/Technologies:** Fast API, Celery, Redis, Firebase, Flutter, ffmpeg, Netlify

**Database:** PostgreSQL

**Tools:** Git, Jupyter Notebook, VSCode

## INTERNSHIP

### ***Apollonian AI (Remote)***

Jan. 2025 — Present

*Software Developer Intern*

- Contributing to the Videos Team in building and scaling the backend for the company's video-generation platform.
- Lead and coordinate three weekly recorded meetings, presenting code updates, planning development milestones, and discussing technical strategies with team members.
- Develop and maintain the main backend program and complementary REST API using Python, integrating Generative AI technologies and tools such as ffmpeg (for video editing) and Firebase (for cloud data management).
- Implement concurrent programming techniques to optimize performance; maintain robust coding practices through sanity checks, working examples, and version control with GitHub (branching, pull requests).
- Produce and deliver weekly project reports to the project supervisor, including live demos, code summaries, and comprehensive documentation of backend architecture (also via Figma) and feature development.

## **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/ACT, IB, and AP exam preparation, providing practice exams, a question bank, and guided instruction.
- Assist K-12 students with college essays and schoolwork in the following subjects: Geometry, Algebra II, Pre-Calc, Calculus I & II, Physics I & II, Chemistry, AP Gov, Economics, AP Computer Science Principles, etc.

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

Jun. 2024 — Sep. 2024

#### ***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

## **PERSONAL PROJECTS**

### ***Sports Analysis Program Repertoire***

**Role:** *Co-creator*

**Technologies:** *Python, Jupyter Notebook, NumPy, Matplotlib, HTML/CSS/JS, Netlify*

- Developed 4 Python programs to evaluate the influence of VAR (video assistant refereeing) on Premier League outcomes.
- Scraped standings and match statistics from ESPN and automated CSV generation using Requests and HTML2Text.
- Visualized trends in team outcomes and refereeing decisions using animated bar and line plots with Matplotlib.
- Designed and deployed a frontend website with HTML/CSS/JS (via Netlify) to present findings interactively.

### ***Sports Database Project***

**Role:** *Creator*

**Technologies:** *PostgreSQL, Bash, CSV*

- Built a PostgreSQL database for VAR-related decisions for specific South American football (soccer) leagues, including decisions, match data, and teams.
- Translated and structured raw SofaScore data into 4 relational databases via CSVs.
- Wrote Bash scripts to query, build, restore, and update the database efficiently from the command line.

## **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 the Montgomery County Circuit Court and the 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