

# Alazar Manakelew

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[GitHub](#)

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## Education

### Springbrook School | High School Diploma & IB Diploma & AOIT Certification

- Graduating with *IB Diploma* and *PLTW Certification* ~ 4.6 WGPA & 4.0 UWGPA ~ President of *Machine Learning Club*
- Honor Student ~ Straight-A Student ~ 250+ Service Hours ~ Distinguished IB Diploma Student

### University of Baltimore Marland | Computer Science (Honors College)

- Incoming freshman in Fall 2025

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## Experience

### [4RL](#) | Backend Developer (*Vector DB, Embeddings, Py, etc.*)

- Developing a next generation of AI-based socialization...

### [Adsynthetica](#) | Applied ML Intern (*PyTorch, Python, Gradio*)

Jan '25 - Present

- Developed a **Python**-based program to extract, analyze, and produce expansive marketing reports on consumer reviews using [Gradio](#) for visualization.
- Prototype a [Knowledge-Augmented Generation](#) system for segmented customer analysis from real and synthetic data
- Developing multi-agent frameworks using [LangGraph](#) and

### [U. Of Baltimore, Maryland \(UMBC\)](#) | Bioinformatic Researcher (*R, Python, Linux, HTML/CSS*) Aug '24 - Jan '25

- Conducted part-time research exploring archaea genetics through **R Programming**, analyzed databases with **R-Studio**, Implemented **SQL databases**, and maintained a website using [Bootstrap](#) and **HTML/CSS**.
- Collaborated with others to develop [a high-quality interactive RShiny](#) website for academic research purposes.

### [OpenLocus.AI](#) | ML Intern (*Python/ PyTorch/ Javascript*) June '24 - Nov '24

- **Automated high-quality data collection** process using **Web Scraper (Python)**
- Developed and **maintained a web scraper with Arc90**, used **BeautifulSoup** and **Scrapy**

### [Food and Drug Administration](#) | Lab Intern (*AWS, Reinforced Learning, Python*)

June '24 - Oct '24

\* Lab Intern acceptance rate: <10%

- Using **Reinforced Learning** and **Python** to train miniature-sized cars; came [2nd against 10 teams](#)
- Built out an app using **Computer Vision**, **Data Collection**, and **Data Processing** to develop a medication-recognizing app, won 1st in a team competition.
- **Shadowed** and **worked** in **CBER Laboratory**; **Observed** and **analyzed T-cells** inside the **pancreas**

### [Google Code Next](#) | Cs experience (Top 15%) *Python, HTML, CSS*

Oct '23 - July '24

- Worked on open-source projects with other programmers to develop websites and fun website games
- Received mentorship and guidance from Google SWE, gaining professional experience & exposure

### [Fiverr](#) | Web Developer *CSS, HTML, Java*

December '20 - May '21

- Developed UX/UI of business websites, working with customers to deliver excellent and high-quality websites
- Achieved **29 5-★'s** in 4 months, with an **average rating of 4.7**

### [Springbrook H.S ML Club](#) | President/Founder *Python, PyTorch, Jupyter*

Oct '23 - Present

- Taught ML to inexperienced students and over **50+ members**, advocated for country-wide ML classes, and **secured school funding (500\$)**.
- Participated in **ML competitions** statewide and internationally through **Kaggle**
- Brought in field experts from **IBM** to **UMD** professors to speak, holding **engaging Q&As** to educate members

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## National Distinctions

**AP Scholar Student, 5%**

**Mu Nu Chapter Award Recipient, 5%**

**National Questbridge Scholar, Top 25%**