

Yonatan Tussa

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EDUCATION

Montgomery College

A.A. in Computer Science

Takoma Park, MD

Expected Dec. 2024

Activities & Societies: Raptors Who Code - President, Presidential Scholar, STEM Ambassador, Student Activities Board, Ethiopian Student Association, MC Leads

TECHNICAL SKILLS

Languages: Java, Python, C++, HTML/CSS, JavaScript

Tools: Jira, Figma, Adobe Suite, Salesforce, Git, Docker, AWS EC2, VS Code, Eclipse, MATLAB, Fusion 360, Linux

PROFESSIONAL EXPERIENCE

Raytheon Technologies - Collins Aerospace

Product & Technology Intern

May 2024 - Aug. 2024

Annapolis, MD

- Designed and developed a web-based internal tool for remote access to avionics test lab devices, featuring power controls, live video feeds of SATCOM antennas and network monitoring, **reducing access time by 60%**
- Deployed and hosted the tool as a service on a Linux server, and collaborated with cross-functional teams to integrate with existing systems for reliable cabin connectivity solutions
- Documented technical processes and created a user manual, streamlining future maintenance and development
- Created CAD models and 3D printed parts for lab use, enhancing functionality of the test environment

University of Maryland

GRAD-MAP Undergraduate Researcher

Jan. 2024

Remote

- Analyzed over **5,000 frames** of high-speed footage, leveraging **Python** libraries (**NumPy**, **SciPy**, **pandas**, **Matplotlib**) to uncover patterns and trends within granular systems
- Presented research findings** to graduate students, demonstrating the implications for the future of asteroid studies and potential exploration missions

New Energy Equity

Energy Support Services Intern

Oct. 2023 – Dec. 2023

Annapolis, MD

- Implemented and managed **APIs** within **Salesforce** and ProntoForms, optimizing data visibility for **250+ solar projects** with budgets ranging from **six figures to \$1M+**
- Synchronized **SharePoint** files and data with SalesForce during a company acquisition, resulting in a **40% reduction** in data retrieval time for **100+ employees**

PlayWell Teknologies

STEM Lead Instructor

Jun. 2023 – Aug. 2023

DC, MD, VA

- Instructed 200+ K-5 students in STEM across 10+ schools and recreation centers, leading teams of up to 6

YizzKicks

Founder and CEO

Dec. 2020 – Aug. 2022

Silver Spring, MD

- Led a 4-member team** to establish and operate a successful online business, achieving **\$50,000+** in sales
- Directed marketing campaigns and implemented competitive pricing strategies on high-demand footwear, clothing items, and technology, delivering value to **1,000+ customers**
- Captured and refined product photos using **Adobe Photoshop**, **Illustrator**, and **Lightroom**

PROJECTS

[Vistra - Bloomberg Most Philanthropic Hack Winner](#) | *Python* | *JavaScript* | *HTML* | *Figma* | *GazeFlow API*

- Led a 4-member team** to build Vistra, a smart mirror accessibility aid that uses eye-tracking to make technology more accessible to individuals with physical disabilities

Biotech Pathfinder | *Java* | *Figma* | *Microsoft Visio*

- Leading a team of 8 students** to develop a mobile application for Montgomery College's BioTrain™ program, providing biotechnology students with automated course recommendations and a personalized learning path
- Collaborating with stakeholder** from BioTrain™ to address industry needs and meet project goals

[PixeLink](#) | *HTML* | *TailwindCSS* | *JavaScript* | *QRCode.js API*

- Developed PixeLink, a QR Code Generator web app, enhancing functionality and UX with **QRCode.js API**
- Boosted the Montgomery College STEM Ambassador website engagement by **30%** with custom QR codes