

Yonatan Tussa

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EDUCATION

University of Maryland

B.S. in Computer Science

College Park, MD

Expected May 2026

Montgomery College

A.A. in Computer Science; GPA: 3.52

Takoma Park, MD

Expected Dec. 2024

Activities & Societies: Raptors Who Code - President, Presidential Scholar, STEM Ambassador, Student Activities Board, Ethiopian Student Association, MC Leads, MLT - Management Leadership for Tomorrow, ColorStack, NSBE

TECHNICAL SKILLS

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

Frameworks & Tools: Flask, Docker, Git, AWS EC2, VS Code, Eclipse, Figma, Adobe Suite, Jira, Linux, Fusion 360

PROFESSIONAL EXPERIENCE

Raytheon Technologies - Collins Aerospace

Product & Technology Intern

May 2024 - Aug. 2024

Annapolis, MD

- Developed and deployed a **Python/Flask** web application for remote access to avionics test lab devices, incorporating **REST APIs** for power controls, live video feeds, network monitoring, and subnet calculation, cutting access time by 80%
- Automated network device discovery with **Python** scripts and configured shell scripts on **Linux** servers, VMs, and **Docker** containers for persistent services, enabling automatic restarts and reliable performance on boot
- Built an MVP for **AI-driven** post-flight connectivity summaries using **Python** and **local multimodal LLMs**, automating issue reporting for business aviation clients and reducing manual effort by a projected 70%

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 and faculty, 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 launch a successful business, achieving \$85,000+ in sales and serving 1,000+ customers

PROJECTS

[Haven](#) | *Python* | *JavaScript* | *Flask* | *React* | *Next.js* | *SQLite* | *Google Maps API* | *News API* | *Gemini API*

- Disaster relief platform that connects individuals and nonprofits to provide immediate shelter and essential goods

[SONE - Fidelity Investments Best DEI Hack Winner](#) | *React Native* | *Firebase* | *Expo* | *Typescript*

- Cross-platform app enabling nonverbal and physically disabled patients to communicate with nurses via push notifications

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

- Smart mirror accessibility aid that improves the accessibility of daily tasks for individuals with physical disabilities

Highlights | *Swift* | *Core Data* | *WatchKit*

- Highlight of the Day mobile application with an Apple Watch companion app, featuring daily voice note prompts, speech-to-text transcription, and monthly highlight compilations

Biotech Pathfinder | *Java* | *Objective-C* | *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