

Yuvan Adarsh Jagannathan

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EDUCATION

University of Maryland, College Park

B.S. Computer Science; Minor in General Business · GPA: 3.46

Business, Society & Entrepreneurship Scholar

Coursework: Data Structures & Algorithms, Object-Oriented Programming, Discrete Math, Computer Systems

College Park, MD

May 2028 · 3-Year Accelerated

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML/CSS, SQL, C

Frameworks: React, Next.js, Flask, Firebase, Supabase, Node.js, JUnit, Playwright

Tools: Git/GitHub, Figma, Postman, Auth0, Claude Code

Certifications: IT Specialist — Java, Python (Certiport)

EXPERIENCE

Hack4Impact

January 2026 – Present

National Committee Member & UMD Chapter Member

Remote

- Unified 1,150+ records from 7 chapter websites by building a Python scraper (BeautifulSoup, Selenium) and deduplication pipeline, producing a clean dataset from ~1,700 raw entries.
- Resolved ~550 duplicate identities across 15+ chapters by engineering a reconciliation pipeline merging Slack, GitHub, email, and form data into an engineer-ready database.
- Shipped Google/email auth, category-based search, and Firebase API integrations for Sell4Impact, a student resale platform, as 1 of 3 engineers on the FERN stack.

Science Olympiad

June 2025 – Present

Build Committee Member

College Park, MD

- Building the regional competition website in Next.js.
- Managed logistics and safety compliance for 30+ schools and 450+ students on competition day

PROJECTS

Docket | *Next.js, Auth0, Supabase, Claude API* | www.trydocket.us | MLH Best Use of Auth0 — Bitcamp 2026

- Built a full-stack developer tool using the Claude API to auto-generate summaries of per-commit GitHub diffs, documenting code changes across a repository's full branch history.
- Identified and reported a bug in Auth0's official documentation directly to their engineering team; implemented multi-provider OAuth (email, Google, GitHub).

LingoLock | *Next.js 14, TypeScript, Firebase, Claude API, Tailwind CSS* | *In Progress*

- Architecting a full-stack language learning app using the Claude API to generate per-word breakdowns, personalized onboarding vocab, and adaptive quiz distractors across 3 quiz modes.
- Implemented a custom spaced repetition engine (SRS) across 4 confidence tiers (10 min – 7 days) with Firestore atomic writes, seeded with a 294-word HSK 1 dataset.

F1 Championship Simulator | *Python, Monte Carlo*

- Implemented a Monte Carlo simulator running 6M+ simulations across all driver permutations to forecast F1 championship probabilities — correctly predicted Lando Norris as 2025 World Driver's Champion.

FastF1 Full-Stack App | *Python, Flask, JavaScript, HTML/CSS*

- Engineered a custom data pipeline (FastF1/Ergast APIs → Flask → JSON cache → JS frontend) spanning 75 years of race data, with caching to eliminate redundant API calls and enable offline-resilient rendering

UMD Schedule Generator | *Python, Gemini 2.5 Flash, REST APIs*

- Built a course scheduler synthesizing UMD and PlanetTerp API data; implemented a backtracking algorithm to prune conflicting time combinations across all course permutations, filtering results by professor rating.
- Deployed as a live web app and demoed live at UMD orientation.

VOLUNTEER & LEADERSHIP

Happy Helpers for the Homeless

2023 – Present

- Contributed 700+ volunteer hours to food security initiatives; recognized as Star Volunteer for coordinating weekly food donations serving 100+ individuals.