

Hasan Maharooof

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EDUCATION

University of Maryland, Baltimore County | *BS, Computer Science, Finance Minor* 2024 – 2028

SKILLS

- **Languages:** Python, C++, JavaScript (Node.js), HTML/CSS, SQL
- **Frameworks & Tools:** Express.js, PostgreSQL, RESTful API Design, Linux VPS, nginx, PM2, Git, Unix/Linux

WORK EXPERIENCE

GeoArchive | *Founder, Full-Stack Developer* 2025 – Present

- Built and maintain GeoArchive, a crowdsourced web app where users upload and geolocate pre-1950 historical photographs on an interactive map, with 170+ submissions to date
- Designed a Node.js/Express REST API with PostgreSQL/PostGIS for geospatial data, Sharp image processing, and S3-compatible cloud image storage; includes revision history and admin action logging
- Implemented Firebase authentication with role-based admin controls and Leaflet.js mapping; deployed on a Linux VPS with nginx and PM2

Frish Marketing | *Freelance Photographer & Videographer* 2024 – Present

- Photograph and film community events on-site at the Islamic Society of Baltimore, a Frish Marketing client, producing content for a combined 400k+ followers across Instagram and Facebook

Space Telescope Science Institute | *Data Visualization & Research Intern* Jul – Aug 2023

- Used Python and the Jupyter-based Jdaviz package to analyze and visualize Hubble and James Webb spectroscopic data from the Mikulski Archive for Space Telescopes (MAST)
- Built and deployed an interactive front-end educational website in HTML/CSS on astronomical spectroscopy that translates spectroscopic data into public-facing content, published on the Institute's official website
- Collaborated with astrophysicists and data scientists across 6 in-person meetings as one of 12 competitively selected student interns

Software, Magic & Rainbows | *Software Development Intern* Jun – Jul 2023

- Collaborated with a remote team of 15+ student developers to build a 2D side-scrolling platformer in the Godot 4 game engine, implementing features for player movement and UI in GDScript
- Used Git-based version control and presented progress in twice-weekly team meetings to coordinate remote development

PROJECTS

dmvdocs | *Founder* 2025 – Present

- Conducted 7 oral history interviews with founders of the Islamic Society of Baltimore for an article, reconstructing a 50-year history through newspaper archives, university records, and founding legal documents
- Built and maintain the dmvdocs journalism platform that hosts the article, using HTML/CSS and a custom footnote tooltip system to cite sources

ACHIEVEMENTS

- **National Finalist**, NASA Power to Explore Challenge (1 of 9 chosen from ~1,600 entries across 48 states) — 2023

EXTRACURRICULAR ACTIVITIES

- **Member**, Astronomy Club | UMBC — 2025–present