

# ARYAN THAKAR

✉ aryanthakar@gmail.com | 🌐 www.AryanThakar.com | 💬 linkedin.com/in/aryanthakar | 🐾 github.com/arthakar  
📞 571-315-6939 | U.S. Citizen; Eligible for Security Clearance

## EDUCATION

### University of Maryland

Bachelor of Science in Computer Science; Minor in Business

College Park, MD

Expected Dec 2026

- Dean's List, Spring 2024

- Relevant Coursework: Algorithms, Computer Systems, Artificial Intelligence, Machine Learning, Data Science, Web Application Development, Discrete Structures

## TECHNICAL SKILLS

**Languages:** Java, Python, C, Rust, OCaml, JavaScript, SQL, R, HTML/CSS

**Frameworks/Tools:** React, React Native, Node.js, Flask, MongoDB, JUnit, Auth0

**AI/ML:** TensorFlow, PyTorch, OpenCV, MediaPipe, dlib, Fairlearn, LIME, Matplotlib

**Foundations:** Data Structures & Algorithms (problem-solving, LeetCode), Systems Programming (C, OS concepts), Object-Oriented Design & Patterns

## EXPERIENCE

### Teaching Assistant — CMSC388J: Building Secure Web Applications

Aug 2025 – Present

University of Maryland

College Park, MD

- Assist instruction in a course on building secure, full-stack web apps; topics and tooling include Python/Flask, Django, MongoDB, and modern front-ends such as Svelte/React.

### SEO Tech Developer

Jun 2025 – Dec 2025

Remote

- Built full-stack proficiency via structured modules; developed a movie/TV review web app using Flask, Jinja, and SQLAlchemy enabling users to share opinions via intelligently generated prompts.

### Creative Software Developer Intern

May 2025 – Aug 2025

RedPeg Marketing

Alexandria, VA

- Improved a retrieval-augmented generation chatbot's query resolution quality by **30%** by reducing latency, improving accuracy, reinforcing brand voice, and removing underselling responses.
- Built a CustomGPT workflow using Microsoft Graph API and OpenAI function calling to automate calendar event organization, saving an estimated **30–40 minutes/week** per employee.

### Research Fellow

Jun 2024 – Jan 2025

NSF Institute for Trustworthy AI in Law and Society (TRAILS)

College Park, MD

- Designed inclusive interview protocols to reduce bias in automated video interviewing systems.
- Implemented feature extraction methods (dlib, OpenCV, face-utils) improving accuracy by **0.1 MSE**.

### Software Developer Intern

Jun 2024 – Aug 2024

MAD-learn

Remote

- Fixed SoundCloud API integration, restoring functionality for educational use across the platform.

### Software Developer

Jan 2024 – Feb 2024

Breakthrough Tech, University of Maryland

Remote

- Using agile methods, developed *Cons App*, a React Native prototype for ethical consumption insights, cutting search time for alternatives by **50%** (View project).

## OTHER PROJECTS

### DocuWell | OpenAI, React, MongoDB, Auth0

Sep 2024

- Fine-tuned OpenAI chatbot for patient–doctor communication; boosted interaction quality by **20%** and enabled more accurate root-cause diagnosis (View code).

### Identifying Areas of Bias in Datasets | Python, Fairlearn, LIME

Aug 2022 – May 2023

- Conducted a mini meta-analysis on U.S. Census + UCI Heart Disease datasets, uncovering gender over-weighting as a source of misclassification (View code).

### Authentic Screen Talk | Flask, Jinja, SQLAlchemy

2025

- Movie/TV review site prompting thoughtful reviews beyond ratings; built with Flask, Jinja templates, and SQLAlchemy (View code).