

Matthew Chin

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EDUCATION

University of Maryland

Bachelor of Science in Computer Science, Minor in Business

College Park, MD

Jan. 2024 – May 2027

EXPERIENCE

Undergraduate Data Research Assistant

Feb. 2025 – Present

Digital Media Lab, UMD

College Park, MD

- Build Chrome Extension + Next.js frontend to scrape and visualize live news metadata, using Chart.js, TypeScript, and DOM parsing
- Designed interactive dashboards and visualizations plotting engagement metrics, enabling researchers and local news anchors to analyze user interaction patterns
- Implemented live data pipelines for journalism platforms (e.g., Baltimore Banner), improving efficiency of content analysis

Development Intern

Jun. 2025 – Present

Colexia

New York, NY

- Built Python + BeautifulSoup4 scrapers to index/organize product datasets, improving dataset standardization for external ML models
- Contributed to Firebase-based wait list website to support early-stage startup growth and exposure
- Automated product ingestion pipeline into xlsx folders using Google Drive API, accelerating data reports by 70%

Helpdesk IT Technician

Aug 2020 – May 2023

Stone Rehabilitation & Senior Living

Newton Upper Falls, MA

- Shadowed and co-delivered Tier 1/2 helpdesk support for 200+ staff, resolving hardware, software, and networking issues.
- Configured and maintained workstations, printers, internal system hardware, reducing downtime and ensuring HIPAA compliance.
- Trained staff on new systems and provided on-call technical support, creating a reliable, user-friendly IT environment

PROJECTS

Smart Story Agent | *Next.js, TypeScript, AI*

- Developed a full-stack web app analyzing live news articles with Claude API + custom algorithms for engagement metrics.
- Designed interactive UI with Tailwind CSS + Framer Motion, increasing usability and visualization quality.
- Integrated PostHog analytics for user behavior tracking and engagement insights.

VFC Community App | *Next.js, TypeScript, AI*

- Contributed to a cross-platform serving 250+ users, building event management, push notifications, and MFA authentication.
- Built reusable component library + custom hooks that reduced code duplication by 40%

Baltimore Banner Scraper | *JavaScript, HTML, CSS, Chart.js*

- Engineered a Chrome Extension (Manifest v3) to scrape article metadata (word count, images, headers) and visualize results in real time.
- Leveraged Web Storage + DOM parsing for efficient data restructuring and UI rendering

TECHNICAL SKILLS

Languages: Java, Python, C , (Rust, OCaml)

Frameworks: React, Next.js, React Native, Firebase, Tailwind, Chart.js

Developer Tools: Git, PostHog, Framer Motion, BeautifulSoup4, Chrome Extensions API, Claude API

Certifications: Tata Cybersecurity Job Simulation, Mastercard Cybersecurity Job Simulation, AWS ML Solutions (Coursera), CompTIA Sec+ (in progress)

Other: Seal of Bi-literacy (Spanish & English, 2022)