Matthew Chin

matthwchin@proton.me | linkedin.com/in/matthewleechin | 781-697-4238 | github.com/balnc9

Experience

Colexia

Remote + New York, NY | June 2025 - August 2025

Development Intern

- Developed product indexing + script algorithm for item sorting and organization to extract clean datasets
- Contributed to backend application services using Python+beautifulsoup4
- Started development on waitlist website and structure for app using FireBase

Digital Media Engagement Lab, UMD

College Park, MD | February 2025 - Present

Undergraduate Researcher - Data Visualization Team

- Contributed to an Undergraduate Research team focused on analyzing Digital Media Interaction data to explore engagement metrics, interaction patterns, and attention data.
- Co-Developed a live news web scraper app and a Chrome Extension to scrape and visualize metadata from local journalism platforms such as the Baltimore Banner.
- Engineered live data visualizations using JavaScript, Chart.js, Next.js and TypeScript.

Stone Rehabilitation and Senior Living

Newton, MA | August 2020 - May 2023

IT Technician & Receptionist

- Executed data entry for patient records into a database, ensuring efficiency of indexing and data integrity.
- Assisted in updating and troubleshooting systems, software and related hardware within healthcare systems.

Projects

VFC Community App (React Native, FireBase, TypeScript)

- Contributed to cross-platform mobile/web app using **React Native** and **Expo**, and **Firebase** to serve 250+ members
- Implemented event management, push notifications, and multi factor user authentication
- Created reusable library components and custom hooks to decrease duplication and increase efficiency by 40%

Smart Story Agent (Next.js, TypeScript, AI)

- Engineered a full-stack web application using Next. is 14 and TypeScript analyzing all news articles live, using AI powered content analysis through Claude API Integration and personally developed algorithms for engagement metrics.
- Integrated PostHog analytics for user behavior tracking, and Tailwind CSS + Framer Motion for UI/UX and interactive data visualizations.

Baltimore Banner Scraper (JavaScript, HTML, CSS)

- Co-Engineered a Chrome Extension using JS, HTML, CSS, and Chart.js to scrape and plot key article metrics and metadata (word count, date, images, headers) from the Baltimore Banner, a local news website.
- Leveraged Chrome Extensions API (Manifest v3), Web Storage, DOM Parsing, and content scripts for real-time data extraction/restructuring, and UI rendering.

Education

University of Maryland, College Park

Bachelors of Science, Computer Science

College Park, MD 20742 Class of 2027

Coursework: OOP I/II (CMSC131/132), Discrete Structures (CMSC250), Computer Systems (CMSC216), Applied Statistics (STAT400), Algorithms (CMSC351), Organization of Programming Languages (CMSC330), Cryptography (CMSC456), Computer Networks (CMSC417)

Certifications & Skills

Languages: Java, C, Python, OCaml, Rust

- **Developing Machine Learning Solutions (AWS, Coursera)**
- Tata Cybersecurity Analyst Job Simulation (Aug. 2025)
- Mastercard Cybersecurity Job Simulation (Aug. 2025)
- JPMorgan Software Engineering Job Simulation (In-Progress)
- Seal of Biliteracy (Spanish + English, 2022)