**Matthew Chin**

matthewlchin1@gmail.com | 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.js 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** *College Park, MD 20742*

Bachelors of Science, **Computer Science** *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**

* **Developing Machine Learning Solutions** (AWS, *Coursera)*
* **Java, C,** Python**,** OCaml**,** Rust
* CompTIA Security+ (In-Progress)
* Seal of Biliteracy (Spanish + English, 2022)