

# Matthew Chin

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## 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
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*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**.
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*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.
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## 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.
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## 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)*

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## Certifications & Skills

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