

# 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 scalable analytics platform processing 1000+ events/second using **Spring Boot**, **Kafka**, **PostgreSQL**, and **Docker**, reducing API latency by 85%
- Automated data workflows using Python scrapers and Google Drive API integration, accelerating data reports by 70% and supporting ML dataset standardization

### Helpdesk IT Technician

Aug 2020 – May 2023

*Stone Rehabilitation & Senior Living*

*Newton Upper Falls, MA*

- Shadowed and delivered Tier 1+2 support for 200+ staff, resolving hardware and networking issues.
- Configured and maintained workstations, printers, internal system hardware, reducing downtime and ensuring HIPAA compliance.

## PROJECTS

### Colexia Product Platform | *SpringBoot, Kafka, PostgreSQL, Next.js*

- Built scalable analytics platform processing 1000+ events/second using **Spring Boot** microservices, **Kafka**, **PostgreSQL**, and Redis caching, achieving 85% API latency reduction with **Docker containerization**
- Developed event-driven data pipeline with real-time aggregation, REST APIs, fault tolerance, and comprehensive monitoring using Prometheus and Spring Boot Actuator for production observability
- Created full-stack dashboard with Next.js, TypeScript, and React featuring responsive UI, real-time visualization, and analytics insights consuming optimized REST endpoints with sub-100ms response times

### 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, with event management, push notifications, and MFA authentication.
- Built reusable component library + custom hooks that reduced code duplication by 40%

## TECHNICAL SKILLS

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

**Frameworks:** React, Next.js, Spring Boot, Tailwind, Chart.js

**Developer Tools:** Git, Spring Boot, Docker, Maven, BeautifulSoup4, Claude API, Apache Kafka, Prometheus

**Certifications:** Tata Cybersecurity Job Simulation, Mastercard Cybersecurity Job Simulation, AWS ML Solutions (Coursera), CompTIA Sec+ (in progress), SEEDLabs PRNG Lab (Ubuntu Linux VM 20.4)

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

**Coursework:** Data Structures & Algorithms, Organization of PL's, Computer Systems (C), OOP I/II, Discrete Structures