

Cyrus McCollim

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SUMMARY

Computer Science undergraduate with hands-on experience in app development, robotics programming, and data analysis. Proficient in C/C++, Java, and JavaScript for building system logic and user interfaces. Proven ability to apply a strong understanding of core CS topics to complex challenges. Seeking to leverage skills in software and hardware systems design, data analysis, and HCI principles to bring value to a dynamic engineering team.

EDUCATION

Loyola University Maryland | 3.7 GPA

Baltimore, MD

Bachelor of Science in Computer Science – w/ Data Science Minor

Expected: May 2027

- **Courses:** Software Design, Computer Architecture, Systems Programming, Operating Systems, Computer Networking, Statistical Computing, Research Methods, General Physics I & II
- **Notable Projects:**
 - HTTP Proxy Server – Built an HTTP1.1 caching proxy server in C using TCP sockets that intercepts browser requests, forwards traffic to origin servers, and serves cached responses.
 - Image Processing Pipeline – Designed a multi-threaded image-processing pipeline in C using a producer-consumer bounded buffer to batch resize image files.
- **Organizations:** Robotics Club, Hyman Science Scholars

PERSONAL PROJECTS

OrganicReader | *React Native, ML Kit, Sherpa ONNX*

[Project Link](#)

- Built a mobile text-to-speech app with a focus on natural voices and a clean, distract-free user experience.
- Solved buffering pauses by pre-generating the next few audio segments in the background, eliminating freezes.
- Unified document formats into a single rendering engine to cut down on maintenance complexity.
- Achieved real-time word highlighting in sync with audio by directly monitoring playback progress events.

SimplePOS | *Java, Swing, SQLite*

[Project Link](#)

- Built a desktop point-of-sale application for weighted retail items, featuring a product catalog, cart management, PDF receipt generation, and persistent transaction history with SQLite.
- Designed a central event system so completing sales automatically updates every screen in real time.
- Rendered visual components manually to provide a polished, modern UI without relying on third party libraries.

WORK EXPERIENCE

Peer Tutor

Baltimore, MD

Loyola University Maryland

Sept 2024 – Present

- Clarifying computer science fundamentals, including data structures and algorithms, alongside physics, calculus, and statistics, to better student learning, analytical skills, and problem-solving abilities.

Data Annotator

Remote

Welocalize

July 2024 – Sept 2025

- Evaluated user and machine-generated online content for quality and accuracy to improve the relevance and quality of Google search results in accordance with specific guidelines.

TECHNICAL SKILLS

Languages: C/C++, Java, JavaScript, Python, SQL

Programs: Figma, Excel, PowerBI, Teams

Tools: Git/GitHub, Linux, VSCode, IntelliJ, Vim

Frameworks: React, ReactNative, Java Swing