

# Ryan Adolfs

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## EXPERIENCE

### Machine Learning Dataset Encoder

Hoole Special Collections Library – University of Alabama

March 2025 – Present

- Created a Database of Embedded OCR metadata into XML and JSON files from Crimson-White Newspapers.
- Performed digitization, optimization, and classification of over 600 Crimson-White Newspapers.

### Teacher's Assistant

The University of Alabama

June 2022 – August 2024

- Assisted students with creation of programming solutions.
- Successfully conducted real-time code analysis and delivered essential support to students.

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## PROJECT

### Baseball Pitch Suggester

- Utilizes data scraping to obtain data from baseball savant for feature engineering and statistic creation.
- Utilizes Q-Learning Machine learning algorithms using Python to suggest the type of pitch to throw to maximize the likelihood of a desired outcome.

### Blackjack++

[cfbpicks.live/blackjackplusplus.com/](https://cfbpicks.live/blackjackplusplus.com/)

- Implemented a digital platform hosting blackjack and additional casino games using JavaScript, HTML, CSS, and PHP.
- Built in an Agile Development cycle with 4 other developers.
- Integrated advanced algorithms to improve gameplay mechanics for over 100 users.

### 3D Graphics Engine

- Developed a console application leveraging C++ for importing and rendering 3D blender models, enabling enhanced interactive visualization.
- Deploys complex Linear Algebra techniques to handle modeling and viewing of 3D models.

### ChocAn

[github.com/Rasper1219/Ryan\\_Adolfs\\_Projects\\_And\\_Code/tree/main/ChocAn](https://github.com/Rasper1219/Ryan_Adolfs_Projects_And_Code/tree/main/ChocAn)

- Mock Healthcare software built using Java in an Agile development cycle with 6 other members.
- Wrote code handling member records and validation of users, including the creation of JUnit tests.

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## EDUCATION

### M.S. – Computer Science

The University of Alabama • Tuscaloosa, Alabama • Expected Graduation Dec 2025 • 3.75/4.0

### B.S. – Computer Science

The University of Alabama • Tuscaloosa, Alabama • May 2024 • 3.5/4.0

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## INVOLVEMENT

### Player

University of Alabama Club Baseball • September 2021 – Present

### Member

Data Analytics Club • September 2023 – May 2024

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## SKILLS

Python, C++, C, JavaScript, Swift, Swift UI, Java, HTML, CSS

Visual Studio Code, Xcode, Eclipse, JetBrains IDEs (PyCharm, CLion, etc)

GitHub, Bitbucket, Jira

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