

# Caleb Bayles

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## EDUCATION

Southern Illinois University Edwardsville (SIUE)  
Bachelor of Science in Computer Science, Minor in Mathematics

Graduated May 4, 2024  
Cum Laude GPA: 3.7

## PROJECTS

### NGRREC GREON Data Visualization - Senior Project 8 months

- Provided NGRREC reliable access to data from their water quality buoys, alongside teammates
- Built a website and migrated to a database, using React, Next.js, PostgreSQL, and other tools
- <https://greon-app-37at8.ondigitalocean.app/>

### DNA Accessibility Deep Learning Project - Undergraduate Showcase 4 months

- Utilized neural networks to locate accessible regions in T-cells and lymphoblasts
- Used PyTorch, Conda, and bedtools
- [https://bit.ly/T\\_Cell\\_Lymphoblast\\_Accessibility](https://bit.ly/T_Cell_Lymphoblast_Accessibility)

### SerfffScape 1 month

- Retrieves publicly available SERFF insurance filings using Selenium and Python
- Parses resulting PDFs into Excel spreadsheets for further analysis
- Collaboration with a friend who wanted a way to automate part of his workflow
- <https://github.com/cbayles1/Serff-Scrape>

### Music Stand 7 months

- Constructed an React/Express.js app that provides links to sheet music and chord charts
- Allows users to add, remove, and modify song entries to and from the list
- Allows for searching, sorting and filtering by author, title, key, date added, or custom tag
- <https://github.com/cbayles1/musicStand>

## SKILLS

### Web Development

JavaScript/TypeScript	8 years
React	2 years
Node.js	7 years
HTML/CSS	9 years
SQL	3 years
Responsive Design	5 years
REST APIs	1 year
Angular	< 1 year

### Other Knowledge

Python	6 years
Java	4 years
C/C++	3 years
Git	4 years
C#/.NET	< 1 year
Linux	6 years
OOP	4 years
Docker	< 1 year

## WORK EXPERIENCE

### Park Maintenance, Decatur Park District May 2021 – August 2023

- Mowed and maintained parks throughout Decatur, IL

## ACTIVITIES

### Volunteer Work: Cru President September 2021 – May 2024

- Led and mentored students in group discussions on biblical information and personal motivation
- Led musical events and helped musicians prepare by providing chord charts, lyric sheets, and rehearsals