

# 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
- [greon.ngrrrec.org](https://greon.ngrrrec.org)

### 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
- [bit.ly/T\\_Cell\\_Lymphoblast\\_Accessibility](https://bit.ly/T_Cell_Lymphoblast_Accessibility)

### Turtle Race

2 months

- Full-stack web app where users vote on the winning turtle in a series of races
- Uses Google user authentication and a REST API to connect the PostgreSQL database to a Next.js frontend
- [turtle-race.vercel.app](https://turtle-race.vercel.app)

### Expendable 054 – Lead Designer and Programmer

1 year

- Developed a full video game in Python
- Collaborated with talented artists to create game art
- Released the game to the public, along with subsequent bug fixes
- [caleb-bayles.itch.io/expendable054](https://caleb-bayles.itch.io/expendable054)

## SKILLS

### Web Development

JavaScript	8 years
React.js	1 year
Next.js	1 year
Node.js	7 years
HTML/CSS	9 years
SQL	2 years
Responsive Design	5 years
REST APIs	1 year
Tailwind CSS	1 year

### Other Knowledge

Python	6 years
Java	4 years
C/C++	3 years
Git	4 years
C#	1 year
Linux	6 years
OOP	4 years
Agile	2 years
Scrum	2 years

## WORK EXPERIENCE

### Park Maintenance, Decatur Park District

May 2021 – August 2023

- Maintained parks in the city of Decatur

## 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