

Michael Baren

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Education

Purdue University - BS

Expected Graduation date: May 2025

Major: Computer Science **Minor:** Mathematics **GPA:** 3.9 in major / 3.86 overall

Notable accomplishments: Admitted to the Honors College. Dean's List in Fall 2022, Spring 2023, Fall 2023, Spring 2024, Fall 2024. 7-semester member of the Athletic Director's Honor Roll and 3 time All B1G 10 Academic team.

Relevant studies: Coursework includes Object-Oriented Programming, Systems Programming, Artificial Intelligence, Networking, Operating and Embedded Systems, Graphics, and Algorithms.

Technical Skills

- C/C++
- Java
- Python
- numpy & pandas
- pytorch
- pyshark
- Javascript & Typescript
- React & Next.js with convex
- Node.js
- HTML/CSS
- HTTP
- Docker

Projects

- Custom web server in C
- Custom malloc in C
- A shell in C
- Test management system for teachers in Java
- Custom 2048 tile match game in Java Swing
- Training predictor models in Python with the pandas library
- Deep learning in Python with the pytorch library
- PCAP file analysis and metrics in Python with the pyshark library

Experience

HirexHire | Chicago, IL

2023-Present

Software Development Intern

Worked independently to research, build, and test a new Applicant Tracking System

- Collaborated with a small team to build a full-stack ATS
- Developed the procedures to facilitate retrieval and manipulation of the information stored in a convex database
- Designed the UI to allow for easy navigation throughout the system, visually linking all components of the data model to create a positive user experience.
- Engineered a custom API capable of file uploads and streaming to generate job descriptions with OpenAI
- Implemented HTTP response handling and other enhancements for form submissions and data fetching
- Conducted independent research to learn Next.js and React best practices to build the app with a convex database
- Delivered a marketable product that will be a focal point of the company's services offering

Purdue University Cheerleading Team | West Lafayette, IN

2021-Present

NCAA Division 1 Student Athlete

2023 team MVP with multiple B1G 10 honors

- Voted MVP by teammates of the 4th place team at the Universal Cheerleading Association National Competition in 2023
- Awarded all B1G 10 Second Team and B1G 10 First Year Only Team recognition for coed cheer in 2021-2022 season
- Cheered year round for 4 years at football, men and women's basketball, women's volleyball games, high school clinics and other community events.

Illinois Recreation Cheer Association Camp | Kenosha, WI

Summer 2022, 2023

Cheerleading Coach

Member of NCAA cheerleading staff for a youth cheer camp

- Selected as one of the most elite NCAA cheerleaders from around the country to make up the camp staff
- Taught proper skill and safety technique to build camp demonstration routines which were performed at the end of each session
- Provided a fun, encouraging environment where the athletes built stronger relationships with each other, their coaches, and cheerleading

Other Experience

- 3-time world champion as a member of the National US Junior Coed Cheerleading team
- 2-time USA gymnastics national parallel bar medalist
- Competitive gymnast throughout high school
- Tutored high school students in calculus
- Played clarinet for 8 years and composed 2 original music pieces