

Jacob G. Siemsen

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EDUCATION

Michigan State University

B.S. in Computer Science

East Lansing, Michigan

Expected Graduation, April 2027

- o **GPA:** 3.41, *Dean's List*
- o **Past Related Coursework:** Data Structures & Algorithms, Object Centered Design and Implementation in Programming, Matrix Algebra, Computer Organization & Architecture, Databases & the Cloud, Web Application Architecture and Development, & Computer Systems, Object-Oriented Software Design, Big Data Analysis, Introduction to Artificial Intelligence, & Algorithm Engineering
- o **Fall 2026 Related Coursework:** Software Engineering, Collaborative Design

EXPERIENCE

Computational Biology Lab

Research Assistant

East Lansing, Michigan

Feb 2026 - Present

- Spearheading the development of a dynamic web server to showcase 3D cell structure models, enhancing the accessibility of cutting-edge computational biology research
- Implementing a responsive front-end interface with ReactJS, JavaScript, HTML, and CSS to provide seamless, interactive visualizations of cellular models
- Building a robust Node.js back-end integrated with a MongoDB NoSQL database, employing SQL queries to manage and retrieve complex research data

Glen Ellyn FJC Park Ops.

Parks Maintenance Staff

Glen Ellyn, Illinois

May 2024 - Aug 2025

- Developed strong communication and teamwork skills by adapting to different communication styles and problem-solving in a multicultural environment

Monticello Investments

IT/Sales Intern

Wheaton, Illinois

Sep 2021 - Feb 2022

- Made outbound sales calls to prospective clients, introducing products, addressing inquiries, and providing tailored solutions based on their needs
- Conducted research on technology solutions to increase sales and lower company costs while mitigating risk

PROJECTS

Website Development

Individual Project

Glen Ellyn, Illinois

November 2023 - December 2023

- Designed and developed a fully functional website with a CSS-styled homepage, utilizing HTML, Javascript, PHP, and SQL for dynamic content and user interaction
- Implemented a secure registration and login system with encryption and hashing, integrating Google's SMTP server for human verification to prevent bot registrations
- Managed user data using MySQL databases from over 100+ users, ensuring secure storage and retrieval of credentials and other personal information

ACTIVITIES AND LEADERSHIP

Club Pickleball

President

East Lansing, Michigan

Aug 2024 - Present

- Organized and managed events for a club with over 200+ members, including tournaments, and social gatherings. Raised 15K+ from fundraisers to help support club travel and pay necessary expenses

630 Volleyball Leadership Academy

Team Captain

Lisle, Illinois

Aug 2022 - July 2023

- Selected to attend a leadership academy where I developed key leadership skills, including decision-making under pressure, time management, conflict resolution and mentorship of teammates

SKILLS

Programming: Python, C++/C, JavaScript, SQL, HTML/CSS, Assembly, Java, PHP **Tools/Frameworks:** Git, Docker, React, Flask, Node, Pandas, XML, Google Cloud, Gitlab, Linux, Vue, Jinja, Power BI, DataBricks, Microsoft 365 with Excel