

Spencer Mines

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EDUCATION

Binghamton University, SUNY | School of Computing

Bachelor of Science in Computer Science

Graduated Spring 2025

Relevant Coursework: High Performance Computing, Discrete Mathematics, Computer Vision, Operating Systems, Linear Algebra, Software Engineering, Design Patterns

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript/TypeScript, HTML/CSS

Frameworks and Software: React, Next.js, Tailwind, Flask, AWS, Docker, Git, Linux

SOFTWARE ENGINEERING EXPERIENCE

Teidore

Chicago, IL (Remote)

Software Engineer Intern

July 2025 – September 2025

- Developed a web-based platform to automate e-commerce product categorization and data integration, using React and Tailwind CSS for front-end development
- Implemented AI-powered tools improving product filtering and recommendations across 50+ partner retailers
- Collaborated with the founder to enhance data accuracy and platform scalability through Supabase and PostgreSQL schema optimizations

TECHNICAL EXPERIENCE

Software Development and Systems

- Proficient in Java, Python, C++, and SQL with experience in full-stack development
- Strong foundation in data structures (lists, stacks, queues, trees, heaps, hash tables) and algorithm design
- Skilled in memory management, instruction set architecture, and cache optimization

Artificial Intelligence and Machine Learning

- Studied AI agent design, search algorithms, knowledge representation, and planning techniques
- Gained hands-on experience with natural language processing, computer vision, and robotics
- Implemented Markov Decision Processes (MDPs), Q-learning agents, and Expectimax-based AI in adversarial games

PROJECT EXPERIENCE

College Housing Platform | *Technologies: Python, Node.js, React.js*

January 2025 – May 2025

- Developed a platform to streamline the housing and roommate search process for college students, providing an all-in-one solution for listings and roommate connections
- Implemented an intuitive user interface featuring an interactive map, enabling users to explore housing options by location, price, and amenities

Exoplanet Database | *Technologies: Python, SQL/Databases*

October 2024 – December 2024

- Developed a Flask-based web application to display, search, and explore a database of exoplanets with pagination and detailed views for each planet
- Designed and implemented an SQLite database schema to store exoplanet information, including discovery details, host star data, and image URLs

Ideal Glycemic Control in Type 1 Diabetics | *Watson College of Engineering*

January 2023 – May 2023

- Authored a comprehensive research paper on improving glycemic control in Type 1 Diabetics
- Analyzed and compared two prominent control algorithms, specifically focusing on model predictive control and proportional integral derivative

ADDITIONAL EXPERIENCE

McCaffrey's Food Market

New Hope, PA

Supervisor

June 2022 – Present

- Promoted from cashier to supervisor for consistently high performance and reliability; recognized as Employee of the Month while overseeing daily front-end operations and ensuring excellent customer service
- Trained and managed a team of 5-10 cashiers, resolved escalated customer concerns, and maintained smooth store operations during peak hours

ACTIVITIES

JDRF Participant Advisory Council

Binghamton, NY

Member

March 2024 - Present

- Championed broader awareness and education of Type 1 Diabetes, galvanizing support for groundbreaking research, and fostering a deeper understanding of life as a Type 1 Diabetic