

# Spencer Mines

Huntington, NY | (631) 479 - 8088 | [spencermines1@gmail.com](mailto:spencermines1@gmail.com) | [LinkedIn](#) | [Portfolio](#)

## 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:** Java, Python, C, C++, SQL, JavaScript, TypeScript, HTML

**Frameworks and Software:** React, Next.js, Tailwind CSS, Flask, AWS, Vercel, Docker, Git, GitHub, Linux, Windows, MacOS

## WORK EXPERIENCE

### Teidore

Chicago, IL (Remote)

Software Engineer Intern

July 2025 - Present

- Developed a web-based platform to automate e-commerce product categorization and data integration, using React and Tailwind CSS for front-end development
- Collaborated directly with the founder to implement AI-powered tools that improve product filtering and recommendations across 50+ partnered retailers

### McCaffrey's Food Market

New Hope, PA

Supervisor

June 2022 - Present

- Promoted from cashier to supervisor for consistently high performance and reliability, 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

## 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

## 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

### Centenary United Methodist Church

Lambertville, NJ

Volunteer

April 2023 - August 2023

- Dedicated volunteer work at the soup kitchen, providing essential support to individuals facing food insecurity within the community