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: Java, Python, C, C++, SQL, JavaScript, TypeScript, HTML
Frameworks and Software: React, Next.js, Tailwind CSS, Flask, AWS, Git, GitHub, Linux, Windows, MacOS, Microsoft

WORK EXPERIENCE

Teidore   **Chicago, IL (Remote)**
Software Engineer Intern   *July 2025 - Present*
- Developing a web-based platform to automate e-commerce product categorization and data integration, using React and Tailwind CSS for front-end development
- Collaborating directly with the founder to implement AI-powered tools that improve product filtering and recommendations across 50+ partnered retailers

Dickinson Area Office   **Binghamton, NY**
Front Desk Position   *September 2021 – May 2025*
- Maintained and organized keys for residents of the Dickinson Community at Binghamton University
- Answered phone calls from students and parents concerning questions or problems about residential life

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

Portfolio Website | *Technologies: Next.js, TypeScript, TailwindCSS*   *March 2025 – Present*
- Designed and developed a responsive portfolio website to showcase projects and skills
- Implemented interactive UI elements and animations to enhance user experience and engagement

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