Spencer Mines

Huntington, NY | (631) 479 - 8088 | spencermines1@gmail.com | LinkedIn | Portfolio

EDUCATION

Binghamton University, SUNY | School of Computing

Bachelor of Science in Computer Science *Graduated Spring 2025*

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

TECHNICAL SKILLS

Languages: Java, Python, C, C++, SQL, HTML

Frameworks and Software: Next.js, AWS, React, Git, Linux, Windows, MacOS, Microsoft

WORK EXPERIENCE

McCaffrey's Food Market **New Hope, PA**

Cashier *June 2022 – Present*

- Managed financial transactions and processed customer payments to execute the sale of goods in an efficient manner
- Recognized for exceptional customer service and consistently exceeding customer satisfaction goals

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