

Kyle Walker

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Education

Rensselaer Polytechnic Institute, Troy, NY, May 2024 Graduation

Bachelor's degree in Computer Science, Concentration in AI and Data

GPA: 3.23/4.00

Relevant courses: Foundations of Computer Science, Computer Organization, Introduction to Algorithms, Data Structures, Principles of Software, Operating Systems, Software Design and Documentation, Database systems, Intro to AI, Programming Languages

Experience

Neural Stem Cell Institute (NSCI), Rensselaer, NY, June 2023 - present

AI Data Analyst Intern | **Tech Stack:** Python

- Provided bioinformatics and data analysis support for ongoing projects at the institute pertaining to stem cell research through software development.
- Used Tensorflow to create an image recognition software to automate image processing within the institute in real-time and categorize information.

RPI Introduction to Artificial Intelligence, Troy, NY, January 2023 - May 2023

- Advancement of analytical problem-solving skills through the fundamental understanding of artificial intelligence
- Gained experience with various search algorithms, optimization problems, and mathematical concepts pertaining to the field of AI.

PI Lambda Phi Fraternity, Troy, NY 2022-2024

President of Finance

- Managed a budget of \$200,000, ensuring efficient allocation of funds for various projects and expenses, maintaining communication with other officers in the process
- Oversaw financial transactions, reconciled accounts, and maintained accurate financial records.

Deli and Brew, Troy, NY, September 2022 - May 2023

- Cashier and Food preparation

Stop and Shop Grocery Store, West Islip, NY

- Part time Cashier, 2019 -2021
 - Part time Dairy Clerk and Management, 2020-2021
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Projects

ShopEasy

Mobile developer | **Tech Stack:** React.js | MongoDB | Node.js | HTML | CSS

- Worked on a team to develop ShopEasy
- Developed a web app that calculates BMR and generates personalized grocery lists based on users needs
- Used React to build a version of the website that works for android and ios devices.

MIPS Processor in C

Software Developer | **Tech Stack:** C++

- Implemented complete MIPS instruction set architecture in a team with 4 other students.
- Used code to simulate computer hardware and how it interprets machine code.

Baseball statistical model npredict future outcomes of games and game interactions.

- Utilized an API to fetch real time stats
- Presented the information in a simple to understand GUI

3D Graphics engine

Software Developer | **Tech Stack:** C++

- Built a 3D rendering engine from scratch.
 - Implemented projection algorithms to render a 3D environment on a 2D screen.
 - Functionality to import .OBJ files and render them in the environment.
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Skills

Programming Languages: Python | Java | C++ | C | SQL | AMPL

Software: Linux | MacOS | Fiji | PostGres | Tensorflow | Pytorch | Excel | Word | Powerpoint | PyGUI