

Kyle Walker

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Education

Rensselaer Polytechnic Institute

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

RPI Medal: Recognizes the superlative academic achievement of young men and women.

Troy, NY

Aug 2020 - May 2024

Experience Neural Stem Cell Institute (NSCI)

Rensselaer, NY

Software Developer | **Tech Stack:** Python | Java

June 2023 - Present

Gait Analysis Software

- Collaborated with the Principal Investigators to identify software requirements and outcomes, ensuring the delivery of an application that automatically measures rat movement from images, aiding in spinal injury research.
- Developed and implemented plugins in Java for ImageJ Fiji, processing images and automating the logging of distances between rat footprints, saving researchers several hours of manual tracking work, substantially increasing project efficiency.
- Executed a testing phase for the automated gait analysis system testing it with over 200 samples, adjusting model parameters to achieve 95% accuracy in identifying the correct data.

Cell Classifier

- Used Tensorflow to create an image recognition software to automate image processing within the institute in real-time and categorize cell growth colonies, reducing time spent by up to 4 months of a 6 month growth period.
 - Ensured seamless integration of the software by showing the company of over 30 employees how to use the program.
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Projects

ShopEasy

Sep 2023 - Present

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

- Spearheaded the mobile software development team of 5 for ShopEasy, overseeing task allocation, code review, and project milestones to ensure delivery.
- Developed a web application that calculates BMR and generates personalized grocery lists based on users needs, saving dozens of hours on time spent formulating meal plans.
- Used React to build a version of the website that works for android and ios devices to make the service more accessible, Linking it to the web API.

Music Player Monopoly

June 2022 - Jan 2023

Front-End Developer | **Tech Stack:** Javascript | Node.js | HTML | CSS | Javascript

- Formulated, pitched, and coded a personalized music statistics website using Spotify's API.
- Led the team of five developers as Scrum Master, adhering to the Scrum framework, hosting weekly meetings to ensure milestone delivery.
- Enhanced user engagement and accessibility by adapting the content and layout based on the device's capabilities and screen dimensions.

Baseball Statistical Model

June 2023 - Sep 2023

Software Developer | **Tech Stack:** Python

- Prepared a data structure that fetches current baseball player statistics from a database of over 900 active MLB players and feeds information to a Markov chain to predict future outcomes of games and game interactions.

Personal Website

June 2023

Front-End Developer | **Tech Stack:** React.js | HTML | CSS

- Designed and developed my personal website which showcases my resume, highlights my technical skills, and includes a contact form for seamless outreach.
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Organizations

PI Lambda Phi Fraternity,

Troy, NY

President of Finance

Nov 2022 - Jan 2024

- Managed a budget of \$200,000, ensuring efficient allocation of funds for various projects and expenses, maintaining communication with other officers in the process
 - Streamlined financial operations by implementing an automated transaction reconciliation system, reducing processing time by 40% and ensuring complete accuracy in financial reporting to the national corporation.
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Skills

Programming Languages: Python | Java | C++ | C | SQL | AMPL | Javascript | HTML | CSS

Software/Libraries: Linux | MacOS | Fiji | Postgres | Tensorflow | Pytorch | Excel | Word | Powerpoint | PyGUI | Numpy

Relevant courses: | Data Structures | Software Design and Documentation | Database systems | Computer Vision