

# Zuhayr Hasan

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## TECHNICAL SKILLS

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**Languages:** JavaScript, Python, Ruby, Django, Java, SQL (Postgres, MySQL), HTML/CSS

**Frameworks:** React, Node.js, Express.js, Unity, Ruby on Rails

**Developer Tools:** Git, Jira, VS Code, Amazon Web Services

## EXPERIENCE

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### Software Engineer Intern

May 2022 – Aug. 2022

*Equestrian Show Manager*

*Hamilton, ON*

- Demonstrated quick learning and adaptability skills by acquiring proficiency in Ruby within a week, effectively applying it to tasks such as accurate PostgreSQL data retrieval, user authentication, and complex search queries
- Collaborated with a team of 4 engineers, engaging in code reviews, troubleshooting, and effective communication, to enhance outcomes through teamwork
- Successfully restructured 8 web pages and optimized PDF reports using Ruby on Rails, resulting in a significantly improved user experience

## EDUCATION

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### University of Western Ontario

London, ON

*Bachelor of Engineering Science in Software Engineering*

*Class of 2023*

**Relevant Coursework** Database Management, Algorithms and Data Structures, Object-Oriented Design, Operating Systems, Networking, Artificial Intelligence

## PROJECTS

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### FullTime Talk | [Live Demo](#) | *Python, Django, Amazon S3, JavaScript*

- Developed a full-stack football-centric social media platform using Django, Python, and Amazon S3, enabling threaded discussions among users
- Leveraged database management skills to optimize performance, implement security measures, and contribute to a collaborative team effort, resulting in a successful deployment of the platform

### Lloyd's Portfolio | [Live Demo](#) | *JavaScript, React*

- Mock-up project for photographer and cinematographer, Lloyd Wakefield, which features over 20 images and 8 videos which were efficiently rendered using lazy loading techniques
- Responsive website to allow any device to have a great user experience

### StudyNote | [Live Demo](#) | *JavaScript, MySQL, React*

- Designed a relational database through ER modelling, logical modelling, and normalization, to develop a database model with minimal attributes and redundancies, which was implemented using MySQL
- Displayed leadership skills by organizing weekly meetings to improve communication within the group and ensure that every member is on the same page

### Footy Chippy | [Live Demo](#) | *Python, SoccerData, Matplotlib*

- Engineered a Python-based football data visualization tool extracting intricate player statistics from FBref using SoccerData and transforming them into insightful bar charts for enhanced analysis using Matplotlib
- Implemented an innovative solution to simplify player performance analysis by allowing users to select players, leagues, seasons, and specific statistics, resulting in clear visual comparisons across eight distinct performance categories

### OddsOn | *JavaScript, Football API, React*

- Provide live football match information for the top European leagues featuring over 5 leagues and 100 clubs
- Dynamically displays a calculated rating, clean and simple formation with 22 players, and tables for both team and individual statistics, all in a user-friendly interface

### Spotif-AI | *JavaScript, OpenAI API, Spotify API, React*

- Created an automatic playlist generator using OpenAI and Spotify's API to generate playlists based off of input
- Automatically fetches and returns over 30 songs within a minute to instantly save in the user's library
- Authenticates the user's ability to stream and save the playlist