

# Mark Zhdan

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## SKILLS

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**Experienced in:** JavaScript, React, Express, Node.js, MongoDB, HTML, CSS, Electron, Python, Java

**Learning:** Next.js, C++, Firebase, DigitalOcean

## PROJECTS

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### *Post-Plant*

- Architected the end-to-end development of Post-Plant, a VALORANT analytics website, leveraging Riot Games' official API to deliver user specific statistical insights.
- Engineered a robust full-stack MERN solution (MongoDB, Express, React, Node.js), ensuring seamless database integration and real-time data processing, secured with JWT authentication.
- Designed an interactive UI with React, boosting user engagement with sophisticated data visualizations, alongside intuitive and detailed replay and data analysis functionalities.

### *Reverse Engineering VLR.gg Player Rating*

- Analyzed extensive datasets of competitive match data to train a predictive model using statistical and machine learning techniques to accurately predict VLR.gg player ratings.
- Achieved a R2 score of 0.985, showcasing the formula's precision in player rating predictions, enabling detailed performance analytics and insightful player comparisons.

### *Valbility*

- Created an inclusive VALORANT accessibility widget designed to bridge the gap for gamers with impairments by introducing voice and audio assistance tools using the Electron framework.

### *Buff163 Python API Wrapper*

- Engineered a robust Python-based API wrapper for Buff163, a CS skin marketplace. Includes 20+ helper functions, enabling efficient and streamlined retrieval of item prices and market analytics.

### *Minecraft Cosmetic Plugin*

- Designed and implemented an interactive GUI and database for 150+ unique monthly players, handling in-game currency, unlockable content, and player metrics.

## EDUCATION

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**The University of Illinois Chicago**

Anticipated May 2025

**Bachelor of Science in Computer Science**

- Developer at CS Tracker's infrastructure team.
- Achieved first place in the VALORANT Red Bull Campus Clutch regional qualifier.

## WORK EXPERIENCE

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**College of DuPage / Natural Areas Aide**

August 2021 - May 2023

- Coordinated efforts to remove invasive species, cultivate native plants, oversee greenhouse operations, and maintain public trails to aid in the restoration of native Illinois prairie ecosystems.
- Fostered a collaborative and motivated team atmosphere to oversee 40+ acres of natural habitat.