

Marshall Blatz

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Education

University of Iowa - Iowa City, IA

B.S.E. in Computer Science and Engineering

August 2019 - May 2023

GPA: 3.41/4.0

Work Experience

Iowa Reading Research Center - Iowa City, IA

November 2021 - Present

Software Developer

- Utilized PHP and MySQL to develop a data management system that consolidated user data and enabled administrators to generate custom reports, resulting in a 60% reduction in time spent on reporting.
- Developed several web applications using React and Express including one which empowered researchers to easily assess students' reading comprehension, leading to usage by over 8,000 K-12 students statewide in Iowa.
- Implemented a single sign-on server and interface, consolidating access to all applications into a centralized endpoint.
- Designed and executed MySQL database schemas across multiple projects, ensuring effective data management.
- Interfaced directly with clients to resolve their issues as quickly as possible while being able to give technical clarity.

RSM US - Cedar Rapids, IA

May 2022 - August 2022

Application Development Intern

- Learned a proprietary language and leveraged it to write extensions for an enterprise resource planning platform.
- Collaborated with peers and supervisors in code review sessions, ensuring code quality and adherence to best practices.
- Successfully managed multiple client projects, including one where I designed and implemented a customer data import tool, resulting in the streamlined creation of credit memos.

Projects

Curate: A Playlist Sharing Web Application (React, Express, Firebase)

January 2023 - Present

GitHub: <https://www.github.com/marshall-blatz/Curate>

- Architected a full-stack social media application leveraging React for the frontend and Express for the backend, providing seamless playlist sharing and music discovery capabilities.
- Integrated the Spotify API and Apple Music API to enable seamless account linking, playlist uploading, and playlist saving functionalities, enhancing the app's versatility and user engagement.
- Developed a custom translation feature to convert Apple Music playlists to Spotify playlists, enhancing cross-platform compatibility.
- Implemented secure authentication mechanisms within the Express backend, utilizing encryption and token-based authentication to safeguard user credentials and interactions with streaming services.

Amplo: A Habit Tracking Dashboard (React, Firebase)

July 2023 - Present

GitHub: <https://www.github.com/marshall-blatz/Amplo>

- Developed a JavaScript-based habit tracker with an emphasis on analyzing and displaying consistency metrics.
- Created intuitive user interfaces enabling user account creation, habit addition, goal setting, real-time tracking of habit consistency, and incentivized strategies to promote daily usage.

Leadership Experience

Hack Iowa Student Club - Iowa City, IA

December 2020 - September 2021

Treasurer

- Planned and lead biweekly meetings where CS concepts are taught to students with all levels of experience.
- Boosted the University of Iowa attendance at nearby Midwest hackathons by 30% by organizing transportation options.

Phi Gamma Delta - Iowa City, IA

January 2020 - January 2021

Head of Recruitment

- Led a team of 6 members in planning and executing all recruitment events over a course of two semesters.
- Increased new member numbers and retainment by more than 50% compared to the previous year.

Skills

- JavaScript/TypeScript (React, Express, Jest)
- HTML/CSS (Tailwind, Bootstrap)
- PHP (Composer)
- Java (Spring)
- Git
- NoSQL (Firebase Firestore)
- Google Cloud Platform
- SQL (MySQL)
- REST APIs