Marshall Blatz

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Education

University of Iowa – Iowa City, IA   **Anticipated May 2023**

B.S.E. in Computer Science and Engineering

- **Relevant Coursework:** Software Engineering Languages and Tools, Database Systems, Software Design, Data Structures, Programming Language Concepts, Algorithms, Communication Networks, Operating Systems, Discrete Structures
- **Organizations:** Association for Computing Machinery, Hack Iowa, Phi Gamma Delta Fraternity, Dance Marathon

Work Experience

Iowa Reading Research Center – Iowa City, IA   **November 2021 - Present**

Student Software Developer

- Developed LMS platforms used by over 8,000 students with PHP and JavaScript for eLearning purposes
- Designed and implemented relational databases on multiple projects using MySQL
- Modernized the login system for all applications by implementing SSO functionality
- Established and applied styling guidelines that were compliant with the current WCAG regulations

RSM US – Cedar Rapids, IA   **May 2022 – August 2022**

Application Development Intern

- Learned a proprietary language and used it to write extensions for an enterprise resource planning platform
- Worked on multiple client projects including one where I created a tool to import customer data and create credit memos
- Prototyped a way for my team to automate sales invoice importing and report creation using Power Automate

Projects

Temperature Sensor App (React, Express, Arduino)   **September 2022**

GitHub: marshall-blatz/Temperature-Sensor-App

- Developed a temperature sensor that updated in real time to a web application
- Hosted a server using Express that read in data from an Arduino via MQTT connection
- Implemented a user interface that graphed the temperature in real time using React
- Set up a notification system to text the user when the temperature left certain bounds with Twilio

Venue Vaccine Approval App (Java, MySQL)   **November 2021**

GitHub: marshall-blatz/Venue-Vaccine-Approval-App

- Developed a vaccine registration platform allowing individuals to apply for acceptance to venue events
- Both venues and users can make accounts and input either vaccine information or covid guidelines
- Once a user applies for acceptance, a venue can review the application and either accept or deny it

Olympics Event Classifier (Python, Scikit-learn)   **October 2020**

GitHub: marshall-blatz/Olympics-Event-Classifier

- Modeled the ability to predict which events athletes competed in during the 2016 Rio Olympic Games
- Displayed and compared the abilities of k-NN classification models that use different feature selection
- Yielded a model accuracy of 92% with the given data set

Leadership Experience

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

Hack Iowa Student Club – Iowa City, IA   **December 2020 – September 2021**

Treasurer

- Plan and lead biweekly meetings where CS concepts are taught to students with all levels of experience
- Increased student involvement to grow from **6 members to 50** over a course of two semesters
- Boosted the University of Iowa attendance at nearby Midwest hackathons **by 30%**

Skills and Interests

- Languages: Java, JavaScript, Python, PHP, SQL, Ruby
- Tools: Git, MySQL, React, Node, Express, Bootstrap, Rails
- Interests: Graphic Design, Drawing, Basketball

Honors and Awards

- RSM Automation Challenge – Most Technical Build Award
- Order of Omega Honors Society