Marshall Blatz

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Education

University of Iowa – Iowa City, IA   **May 2023**
B.S.E. in Computer Science and Engineering   GPA: 3.29/4.0

Work Experience

Iowa Reading Research Center – Iowa City, IA   **November 2021 - Present**
Student Software Developer
- Utilized the LAMP stack 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 a web application using React, Node, and Express that allowed researchers to 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

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

Temperature Sensor App (React, Node, Arduino)   **September 2022**
GitHub: https://www.github.com/marshall-blatz/Temperature-Sensor-App
- Built a real-time temperature sensor system that updates a web application using Arduino and MQTT
- Hosted an Express server that reads temperature data from Arduino via MQTT connection, utilizing MQTT protocol to ensure reliable data transfer
- Designed and implemented a responsive user interface with React, displaying temperature data in real-time and facilitating data visualization through graphs
- Configured Twilio to send text notifications to the user when the temperature exceeds certain thresholds, enabling prompt action to be taken in case of temperature fluctuations

Venue Vaccine Approval App (Java, MySQL)   **November 2021**
GitHub: https://www.github.com/marshall-blatz/Venue-Vaccine-Approval-App
- Developed a Java-based vaccine registration platform that enables users to apply for acceptance to venue events
- Leveraged MySQL database to create a secure and scalable platform where both venues and users can create accounts and input vaccine information or COVID guidelines
- Implemented a notification system that sends alerts to users via text message when the temperature leaves certain bounds, using Twilio's API

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 (React, Node, Jest)
- HTML/CSS (Material UI, Bootstrap)
- Java (Spring)
- PHP
- SQL (MySQL)
- NoSQL (Firebase Firestore)
- REST APIs
- Git