Zachary Belles

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CAREER OBJECTIVE

To work with a team of like-minded engineers towards a greater purpose than our own whilst cultivating and enriching a positive workplace environment where all feel welcome.

CORE COMPETENCIES

- Data Structure Implementation
- Object Oriented Software Design
- MERN Stack Development
- Algorithm Design and Analysis

PROJECTS

DICTIONARY(Kotlin)

- Utilized Android Visual Studio to implement Webster's **API** in a dictionary mobile app through **Database Access Objects**
- Applied **RESTful** architecture for reliability and performance.
- Implemented through multiple pages through **Kotlin Fragments** and **NavigationViews**
- Heavily stressed creating **Unit Tests** throughout to ensure data was being properly processed

GROCERY STORE DATABASE(MySQL, Java)

- Allowed for table creation, legacy data implementation, and addition of new data and tables
- Written in **Java** implementing **Connector/J** to link with **MySQL**
- Created a database normalized to **3NF**
- used **JFrame** to implement a **User Interface** for ease of use

"CONNECT" THE SOCIAL MEDIA HUB (MongoDB, React, Next.js, Node.js, JavaScript)

- Worked in a **Full MERN Stack Agile** development environment utilizing Trello and Slack to maximize efficiency and effectively visualize our burndown.
- applying **RESTful API** calls to Meta, Twitter, and Tiktok API's through **Next.js**
- Implemented **Dynamic Paging** through **Next.js** authentication patterns and server-side rendering
- Securely stored pertinent user data to custom **MongoDB** file directory, utilizing **Mongoose** as an **ODM**

JOB EXPERIENCE

NORTH CENTRAL COLLEGE, NAPERVILLE, IL - *Student Worker - ITS Help Desk, August 2022 - Present*

- Probe questions about user issues, diagnose the problem, then recommend procedures to fix
- Follow up with users through the ticketing system, phone, or in person.
- Protected and secured student accounts when subjected to a vulnerability or compromised.

CODE FOR CHICAGO, CHICAGO, IL - *Volunteer Developer, June 2022-August 2022*

- Work in an professional scrum team to write Code for Chicago's new website
- Write unit tests for each weekly standup
- Utilized Trello to track progress, assign tasks, and adjust tasks based on the burndown graph.
- Learned new skills such as Gatsby, React, and npm, utilized in a professional development environment

EDUCATION

NORTH CENTRAL COLLEGE, Naperville, IL

Bachelor of Science in Computer Science, May 2023

ADDITIONAL SKILLS & ACCOLADES

- Languages known(in order of proficiency): Java, JavaScript, C++, Python, Kotlin, MySQL, C, Ruby, R
- Frameworks known(in order of proficiency): MERN Stack, Next.js React, Spring, JQuery, Gatsby, Jekyll
- Liaison to first generation Computer Science students
- Volunteer developer for Code for Chicago Summer 2022
- **Currently in development