William Zhao

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Education

Vanderbilt University, Nashville TN   **May 2021**
Bachelor of Science in Computer Science
Relevant Coursework: *Intermediate Software Design, Discrete Structures, Data Structures, Linear Algebra*

Experience

Principal Financial Group   **Summer 2018**
Software Developer Intern   *Des Moines, IA*
- Built a job hiring platform that personalizes job search results based on the applicant's interests utilizing AWS, Java with Spring Boot, and JavaScript during Intern Hackathon
- Reduced testing time of principal.com by 20% by implementing a prediction algorithm for testing modules
- Conducted research on various API technologies while focusing on the implementation of GraphQL

BEST Robotics   **Fall 2017**
Head of Robot Construction Team, Regional Winner   *Hoover, AL*
- Led construction team of 20 students in brainstorming designs, building, and testing the robot on competition course
- Communicated with programming team on ideal robot functionality to ensure similar vision for the robot

Projects

Mock NBA   **Summer 2018 – Present**
- Designed a web app to allow users to simulate an NBA game based on the stats of the players selected
- Developed with ReactJS along with a MongoDB database to store the player data
- Utilized a NodeJS backend to run the player stats through Dean Oliver's equation for basketball success to determine the winner
- Created a Python script with BeautifulSoup to scrape various websites to retrieve NBA player data

Crypto Checker   **Winter 2018**
- Designed a website for checking and comparing cryptocurrency prices and other details such as percent changes in price over various timeframes using the CoinMarketCap API
- Programmed with HTML, CSS, and JavaScript to make a front-end UI that displays useful data from the API

Note Market - *VandyHacks 4*   **Fall 2017**
- Created a mock marketplace for the sharing and sale of study materials for college-level students for VandyHacks 4
- Developed the front-end customer UI using HTML, CSS, and JavaScript

Christ Church Attendance System   **Spring 2017**
- Created an Android application for a local church daycare to track attendance of employees and children to ensure participation and track accurate payroll data
- Utilized Java as the primary language and Google Sheets for the database to store exact dates and times of attendance via check-in and check-out system

Campus Involvement

VandyHacks   **Spring 2018 – Present**
Board Member on the Development Team   *Nashville, TN*
- Developed the front-end of the walk-in registration form used for signing up hackers on the day of the event with JavaScript, HTML, and CSS
- Integrated a JavaScript QR scanner with VandyHacks registration servers and a MongoDB database to allow for easy tracking of attendees as they scan into the hackathon

Vanderbilt Student Volunteers for Science   **August 2017 – Present**
Team Member   *Nashville, TN*
- Taught middle schoolers on various aspects of chemistry such as types of reactions and acid-base chemistry
- Orchestrated hands-on, engaging experiments for the students to perform and learn from

Skills

- **Languages:** JavaScript (*preferred*), Python, C++, Java, HTML/CSS
- **Technologies:** ReactJS, NodeJS, GraphQL, ExpressJS, MongoDB
- **Hackathons:** VandyHacks 4, HackGT 4, HackGT 5