# Win San

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#### **Education**

University of Wisconsin, Madison

Sept 2019 - May 2023

- B.S. Computer Engineering, GPA 3.5 / 4.0
- Secondary Major: Computer Science

Relevant Courses: Data Structures and Algorithms, Database Management and Design, Intro to AI, Machine Organization, Computer Networks, Operating Systems, Digital System Design and Synthesis

# **Employment**

## **Undergraduate Learning Center**

Nov 2021 - Present

Web Developer and Tutor

Madison, WI

- Help to maintain and improve the ULC's Tutoring-By-Request (TBR) website using React, PHP, and MySQL.
- Led the migration to a modern backend web application framework (Laravel).
- Tutor students in beginner level CE and CS classes. Accumulated 30+ tutoring hours.

**Target Corporation** 

Software Engineer Intern

Jun 2022 – Aug 2022

Minneapolis, MN

- Interned with Target's Manhattan Fulfillment and Item Certification team.
- Modernized an integration application to use Spring-Kafka and Spring-ActiveMQ instead of Apache Camel.
- Replaced outdated authentication dependency from an item certification application with recommended substitute.
- Built a full-stack application that enables fulfillment center tech ops to securely clear print queues. App reduced on-call support time for my team.

#### **Madison Gas and Electric**

Research Assistant

Dec 2020 – Jan 2022

Madison, WI

Distribution Asset Management Intern

- Helped manage computer models of Dane county's electric and gas grids by utilizing GIS software.
- Wrote a Python script that identified gas valve shutdown zones with 100+ customers by utilizing the ArcGIS REST API.
- Established a procedure to identify and correct discrepancies in generator data between two data sources using Python.
- Built a Power App for the Electric Construction Operations group to manage on call sign ups and points system. The application replaced the paper process.

#### **Wisconsin Human-Computer Interaction Lab**

Apr 2020 - May 2021

Madison, WI

- Utilized the Misty Robotics' API to help program a robotic reading assistant.
- Developed a face detection program using OpenCV and ROS.
- Created a Python script that routinely uploaded audio and video files to Box for when robot was in a remote location. Created an application hosted on Heroku to manage tokens used by script.

## **Skills**

- Tools: Git, Linux, Docker, Gradle, Jira
- Databases: MSSQL Server, MySQL, MongoDB, Firebase
- Languages: Python, Java, Groovy, JavaScript, C, C++, PHP, Verilog
- Frameworks and Libraries: React, React Native, Express.js, Spring Boot, Laravel, Spock, ROS,

## **Projects**

# Mobile App Development

- Co-creator of SchMoney, an ecommerce app designed for college students.
- Built a REST API that interfaces with MongoDB Atlas using Mongoose and Express.js.
- Developed a front-end application using React Native and Expo.

#### Hackathons

- CheeseHacks 2021 (2<sup>nd</sup> of 14 teams) Built Lokal, a web app that matches labor demand with supply within communities.
- UPL Hackathon 2022 (1st of 8 teams) Built BadgerLF, an online lost and found web app for college students.