RITVIK BHAWNANI

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EDUCATION

University of Wisconsin-Madison

B.S. Computer Sciences, expected May 2022

- GPA: 4.0/4.0
- Dean's List (all semesters)

SELECTED EXPERIENCE

Open Systems International, Medina, MN

Software Engineer Intern, May 2020 – August 2020

- Revamped UI and app interface of OSI's mobility platform (Compass) which is actively used by 100+ utility companies
- Designed and developed device searching capabilities in Compass using Xamarin Forms and MVVM design pattern which improved user efficiency by 50%
- Developed and maintained critical components of Compass, including assignment list, map view, and task editor using Agile development and advanced Scrum methodologies
- Leveraged Bing Maps API to build address searching in Compass which increased customer satisfaction

Algorithm Engineering for k-Server Problem, Madison, WI

Research Assistant, January 2019 – May 2019

- Worked with a Faculty Associate in the Computer Sciences Department to gain expertise in online algorithms with an emphasis on algorithm engineering for the k-Server Problem
- Implemented 5 algorithms and ran simulations to experimentally analyze their performance under Bijective Analysis

Softdator Solutions, Dubai, UAE

Software Engineer Intern, July 2019 – August 2019

- Resolved 200+ customer questions and concerns by coordinating with developers to enhance the user experience
- Conducted manual and model-based testing using fleet reports to identify bugs and UI improvements
- Collaborated with senior-level developers to model the back-end infrastructure of the fleet monitoring software

TECHNICAL SKILLS

Programming Languages: Java, C, C++, C#, Python, HTML/CSS, JavaScript, SQL
Technologies and Frameworks: React, React-Native, Xamarin Forms, Flask, Git, Agile/Scrum, MVVM, Firebase

PROJECTS AND INVOLVEMENT

News Panorama

- Building a news platform that uses IBM's Natural Language Processing (NLP) tool to analyze web pages and depict news on the same topic. The goal is to help reduce misinformation and improve the user's perspective on a topic
- Using Node.js to analyze and categorize topics and React.js to display articles

Local Business Website

- Developed a website for a local business using HTML/CSS and JavaScript highlighting their products and contact details
- Used SEO best practices to elevate the company's web presence and achieve high rankings on competitive keywords

Android App

- Published an open-source customizable calculator app for android using Model-View-Presenter (MVP) architecture
- Developed application logic using mXparser library, Android Studio IDE, and Android SDK

Solar Rollers

- Lead a team of 5 to build a solar powered car and won 1st position (out of 17 teams) in the Solar Rollers Competition
- Used AutoCAD for the design, waterjet cutting machine for the chassis, and rigorous testing to maximize performance