Charles J. Rakaczky, Jr.

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EDUCATION

Bachelor of Arts in Computer Science. GPA: 3.85 *Expected Graduation: May 2022*
Minors in Philosophy and Artificial Intelligence
Case Western Reserve University *Cleveland, OH*

Relevant Coursework

Java, Software Craftsmanship and Engineering, Data Structures, System Administration Tools, Algorithms, Database Systems, Calculus I & II, Linear Algebra, Discrete Math, Artificial Intelligence, Computer Architecture

PROFESSIONAL EXPERIENCE

pathVu, Inc. *Pittsburgh, PA*

Dedicated to sidewalk accessibility, *pathVu* performs collection, analysis, and visualization of sidewalk quality data as well as pedestrian navigation using this data.

Junior WPF Developer *May 2020 – Present*
- Developed an **ArcGIS**-enabled **WPF** application to connect collected sidewalk quality data with GIS data.
- Using **C#** and **Visual Studio**, created an application to automate file uploads to **AWS**.
- Creating a **WPF** tool to generate sidewalk width measurements from collected images.

Website Development Intern *May – August 2019*
- Lead developer focusing on website design, using **HTML** and **CSS** to create a new *pathVu* website (http://www.pathvu.com) for all users and prospective clients.
- Using self-acquired skills in **JavaScript** and **PHP** enhanced the site's **responsiveness and accessibility** for visitors on desktop, tablet, and mobile devices.

Case Western Reserve University *Cleveland, OH*

Teaching Assistant for Introduction to Database Systems *September – December 2020*
- Held weekly office hours over Zoom which required a strong understanding of the course material.
- Graded and provided detailed feedback on student assignments

Research Assistant Under Prof. Xusheng Xiao *September – December 2020*
- Generated training data for *DescribeCTX*, a context-aware description synthesis model
- Using **Java** and **JavaScript,** scraped privacy policies and application information from the Google Play Store

LEADERSHIP EXPERIENCE

Director of Design, HackCWRU, Case Western Reserve University *August 2018 – Present*
- Lead promotions designer for the event, including design of the event's website (https://hackcwru.info/), as well as merchandise, and promotional materials.
- Lead website developer using **React JS** and delegating tasks among a team of developers.

SKILLS

Programming languages: Java, C#, XAML, WPF, HTML, CSS, SQL, PHP, Python, JavaScript, React, AWK

Tools: Git, Visual Studio, Eclipse, Linux, AWS, Vim, Dreamweaver, Android Studio, Google Firebase