Ross Worobel

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EDUCATION

University of Minnesota, Twin Cities

Major GPA: 3.94 / 4.00

Ph.D. Computer Science

Graduation (Expected): Spring 2025

Focus: Vision-based robotic grasping

Advisors: Prof. Changhyun Choi and Prof. Nikolaos Papanikolopoulos

University of Illinois Urbana-Champaign (UIUC)

B.S. Chemistry Graduation: Spring 2012

PROFESSIONAL EXPERIENCE

Honeywell Minneapolis, MN

Software Engineering Intern - Automation & AI

Summer 2023

- · Worked on a custom robotic platform which includes multiple cameras, LIDAR, laser rangefinder, GPS, accelerometer, and PTP switch
- · Wrote ROS nodes, launch files, and configuration files in Python and C++
- · Designed and wrote automated data analysis process for the data coming off the robot in Python

Donnelley Financial Solutions

Chicago, IL

Independent Consultant - Data Science & Engineering

2017-2020

- · Helped develop an internal document classification tool which automatically processes SEC filing documents
- · Built and maintained a web-based front-end for the above tool

West Monroe Partners

Chicago, IL

Senior Consultant - Data Engineering

2012-2013

- · Stored, maintained, and analyzed data with development primarily in SQL, Python, C#, and JavaScript
- · Worked for dozens of clients from Fortune 100 companies to startups
- · Promoted two times during 3.5 year tenure

Dotomi, LLC Chicago, IL

Integration Engineer

2012-2013

- · Owned all technical aspects of online advertising campaigns for multiple clients
- \cdot Wrote an Excel parsing program in Python which allowed otherwise unreadable complex Excel data files to be utilized in advertising campaigns
- · Wrote an image aggregation and de-duplication program in Python

IGN Entertainment

San Francisco, CA

Summer 2011

Software Engineering Intern

· Helped design and build internal software to help with the employee review process

RESEARCH EXPERIENCE

Choice Robotics Lab, University of Minnesota, Twin Cities

2020-current

Ph.D. Student

- · Advised by Prof. Changhyun Choi
- · Participating in object grasping, manipulation, object perception, and reinforcement learning research

Air Conditioning & Refrigeration Center, UIUC

2011-2012

Undergraduate Research Assistant

- · Advised by Prof. Pega Hrnjak and Ph.D. Student Yang Zou
- · Helped in researching novel air conditioning system for possible future use in cars, airplanes, trains, or other moving vehicles

PUBLICATIONS

X. Lou, H. Yu, R. Worobel, Y. Yang, and C. Choi "Adversarial Object Rearrangement in Constrained Environments with Heterogeneous Graph Neural Networks" in IROS (2023)

VOLUNTEERING & OUTREACH

FIRST Robotics
Minneapolis, MN
2020-Current

· Help high school-aged students design and build a robot to accomplish various tasks

- · Provide technical knowledge on computer science and robotics to various members of the team
- · Provide general insight on college experiences and help with undergrad applications

West Monroe Partners

Chicago, IL

Senior Member - Charity Committee

2013-2017

- \cdot Helped plan dozens of charity events for WMP, including the largest charity event of the year, the Chicago Cares Serve-a-thon
- · Personally volunteered over 400 hours of time to community service events in the Chicagoland area
- · Awarded the title of Senior Member after two years of consistent service

MENTORSHIP EXPERIENCE

West Monroe Partners

Chicago, IL

Career Advisor & Coach

2013-2017

- · Coached two interns and three new-hire consultants; coaches at WMP are tasked with making the new hires feel at home and ensuring that they have someone to ask questions to
- · Advised one summer intern; career Advisors at WMP are direct supervisors who ensure that the member is on track for their career goals

AWARDS

University of Minnesota, Twin Cities

Minneapolis, MN

· MnDRIVE Graduate Scholar

2020

· John T. Riedl Memorial Graduate Teaching Assistant Award Finalist

2021