DOROTHY (JEONG MIN) HONG

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EDUCATION

University of Michigan   Ann Arbor, MI
Bachelor of Science in Computer Science, Minor in User Experience Design   *May 2025*

- GPA: 3.34/4.00
- Coursework: Introduction to Computer Organization (EECS 370) · Data Structures and Algorithms (EECS 281) · Web Design, Development, and Accessibility (SI 339) · Web Systems (EECS 485)

Yonsei University   Seoul, Korea
Study Abroad   *June 2022 – Aug. 2022*

WORK EXPERIENCE

Software Engineer Intern   June 2022 – August 2022
DOGU CO., LTD   *Seoul, Korea*

- Conducted comprehensive market analysis to identify current trends, challenges, and opportunities for indoor robotics in hospital environment
- Researched strategies to enhance indoor robotics technologies, emphasizing improvements in path planning, obstacle navigation, and precise location awareness
- Developed Vector Maps on top of Point Cloud Data (PCD) maps using Vector Map Builder (Autoware Map Tools)
- Tested advanced sensor technology, including cameras and sensors, to detect dangers and ensure swift response

Community Center Assistant (CCA)   August 2021 – Present
West Quad Community Center   *Ann Arbor, MI*

- Develop initiatives, such as game nights and cultural potlucks, to enhance inclusivity and community engagement
- Manage mail and packages securely and handle resident lockouts and lost keys, ensuring resident safety
- Provide timely and knowledgeable responses to inquiries from residents and visitors to create a welcoming environment

PROJECT EXPERIENCE

Client/Server Side Dynamic Website (Instagram Clone)   December 2023 – Present

- Create dynamic photo-sharing website where users can create accounts, upload photos, post comments, like posts, and follow users
- Develop web application using React for front-end, Python/Flask for back-end, and SQL for database

E-Commerce Website   November 2023 – December 2023

- Developed e-commerce website called *Happy Holidays*, platform where users can discover and purchase unique Christmas gifts
- Created responsive design by implementing a hamburger navigation bar for mobile/tablet views and utilizing JavaScript for image gallery synchronization to ensure seamless and visually engaging experience

Stock Simulation   September 2023 – October 2023

- Developed stock market simulation program using C++, priority queues, functors/comparators, and STL
- Implemented algorithm to maximize profit for time traveler by identifying ideal stock purchase and sale times, enhancing problem-solving and object-oriented design skills

LEADERSHIP EXPERIENCE

Wolverine Support Network Leader   August 2022 – Present
Wolverine Support Network   *Ann Arbor, MI*

- Facilitate weekly peer support groups of 8-12 members to engage in open dialogue about college life, well-being, and overall struggles, ultimately improving students' mental health
- Create fundraiser event to raise funds to support continuation of WSN as a cost-free resource
- Directed and successfully marketed fundraising events such as pie fundraiser and raffle sales and raised $4000

SKILLS

Technical: C/C++, HTML, CSS, JavaScript, Python, SQL, Flask, React, AWS
Languages: Proficient in English and Korean