

Harrison Dempsey

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Education

University of Michigan, Ann Arbor, MI

May 2020

Bachelor of Science and Engineering in Computer Science

Work

Amazon - New York, NY

June 2020 - Present

Ad Placements - Monetization Engineering Team - Software Development Engineer I

- Designed, developed, and ensured operational excellence of data pipelines used for analyzing revenue of advertising placements framework on Amazon.com
- Enhanced live services and built cloud-based projects using AWS suite.
- Engaged in team collaborative process through design reviews and code reviews to deliver at the highest bar.
- Relevant skills - Java, Python, AWS

Amazon Search - Palo Alto, CA

May-August 2019

Query Understanding Team - Software Development Engineer Intern

- Overhauled offline build for retrieving and storing user search data on Amazon marketplaces. This workflow created a limited dataset that downstream users could use for development purposes without putting load on our live service.
 - Productionized workflow handled millions of queries daily across multiple regions.
 - Relevant skills - Apache Hadoop/Spark, AWS

University of Michigan Transportation Research Institute, Ann Arbor, MI

May -August 2018

Research Assistant

- Constructed a survey questionnaire for the Toyota Collaborative Safety Research Center.
 - Measured risky driving behaviors and behavioral tendencies to discover any potential correlation, administered by telephone to a sample of 450 adults throughout Southeast Michigan.
 - Drafted stand-alone protocol document for institutional review board.
- Inspected vehicles and collected data for AAA's LongROAD Senior Cohort Study on aging drivers, which tracks the quality of driving over multiple years for participants aged 65-79.

University

Projects

Elementus Game - Introduction to Game Development (EECS 494)

- Built a 4-player cooperative action video game over the span of three months.
 - Prototyping and iterative development based on weekly peer review sessions.
 - Collaborated with student artists, freelance voiceover actors to add polish to our final product.
 - <https://tiltedden.itch.io/elementus>
 - Relevant skills - Unity, C#

Instagram Clone - Web Systems (EECS 485)

- Built an "Instagram clone" using REST API and client-side dynamic pages.
 - Relevant skills - React/JS, REST API, Jinja, HTML, CSS