
Harrison Dempsey

harrisonddempsey@gmail.com | hddempsey.com | Based in New York, open to relocation and remote.

EDUCATION

University of Michigan, Ann Arbor, MI - *Bachelors of Science in Engineering in Computer Science*
September 2016 - May 2020

EXPERIENCE

Amazon, New York, NY - *Software Development Engineer I*

June 2020 - November 2021

- Designed, developed, tested, and maintained data pipelines that deliver advertising revenue data of Amazon.com to a data lake for business analysis
 - One pipeline parses terabytes of log files for the Amazon ad rendering pipeline with batch processing through Apache Spark on EMR. It structures raw log data and writes to a Glue table backed by S3 storage, enabling insight on ad render rate on Amazon web pages worldwide.
- Implemented serverless AWS Lambda and EC2 based microservices with event-driven and scheduled architecture
 - One microservice performs customer-driven deletion on our datasets by receiving SQS notifications of requests to delete, passing these notifications to our downstream deletion process, and responding completion status to the upstream requester through REST API.
- Hosted and engaged in collaborative processes such as design reviews and code reviews in order to deliver at the highest bar
- Mentored a summer intern and led team sprint planning
- Relevant skills - Java, AWS, Python, Apache Spark, Scala

Amazon Search, Palo Alto, CA - *Software Development Engineer Intern*

May 2019 - August 2019

- Designed and developed a pipeline that stored mappings between user search queries on Amazon.com and relevant product identifiers, which enables downstream development teams to perform search analysis without putting load on live servers.

PROJECTS

Elementus Video Game - *Introduction to Game Development (EECS 494)*

- Prototyped and iteratively designed and developed a 4-player cooperative action video game over the span of three months in a four person team
- Playable builds available at www.hddempsey.com
- Relevant skills - Unity, C#

Instagram Clone - *Web Systems (EECS 485)*

- Built an Instagram clone featuring user posts, comments, likes, and infinite scrolling
- Relevant skills - React/JS, REST API via Flask Python, HTML, CSS, Jinja, SQLite