

Alyssa Katz

(512) 709-9962 | alyssa@alyssakatz.dev
alyssakatz.dev | linkedin.com/in/alyssa-katz/ | github.com/alyssakatz

ABOUT ME

I am a highly driven software engineer looking to join a team that is passionate about creating high quality user experiences through excellent technical design and clean code. I am extremely adaptable and am comfortable working on multidisciplinary teams, with prior experience in data science, computer vision, natural language processing, AR/VR applications, UI/UX design, REST services, cloud deployment, and data storage.

SKILLS

Languages: C#, Python, Java, C/C++, HLSL

Data: SQL, Kafka, Spark, Hadoop

Deployment: Docker, Kubernetes, OpenShift, Azure

Miscellaneous: Unity, Entity Component Systems, Photon Unity Networking

WORK EXPERIENCE

Microsoft | Software Engineer II

Mar. 2020–Present

- Created incubation prototypes and product showcases for augmented and virtual reality software, securing contracts valued at more than \$22 billion.
- Developed solutions to metaverse copresence and immersion challenges when users with different device capabilities (AR, VR, PC, mobile) interact in a shared virtual space.
- Developed a real-time collaborative marine science tool in partnership with OceanX and National Geographic. Designed and implemented novel 3D visualizations of geospatial and temporal data in augmented reality.
- Invented a file format for efficient storage of geospatial and temporal data. Developed a data processing pipeline and REST service for retrieval.
- Worked with partner film crews, video compositing software APIs, and programmable real-world sound and lighting to record mixed reality experiences at professional production quality.

USAA | Software Developer and Integrator III

Sep. 2019–Mar. 2020

- Created a Python tool to generate regulatory and internal documentation from multiple data sources, including SQL databases, Hadoop clusters, and Kafka.
- Created git hooks to automate testing in a Kubernetes environment and publish documentation on commit.

USAA | Software Developer and Integrator Intern

June 2018–Aug. 2018

- Designed and implemented unit and integration tests in Java for an AI-based safe driving incentive program.

Tech EdVentures | K-8 Instructor

Sep. 2017–Jan. 2018

- Taught programming fundamentals in Python and C++.

EDUCATION AND HONORS

Master of Science in Computer Science

May 2019

University of Texas at Dallas

- Intelligent Systems and Big Data tracks.

Bachelor of Science in Computer Science

May 2018

University of Texas at Dallas

- Graduated Cum Laude with Computer Science and Interdisciplinary Honors.
- Co-founded the Artificial Intelligence Society. Organized hackathons and conferences. Lectured.