

Angela Dai

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Education

Georgia Institute of Technology, Atlanta, GA

May 2024

Master of Science in Computer Science, **4.00 GPA**

Bachelor of Science in Computer Science: Concentration in Media and AI, **3.96 GPA**

May 2023

Experience

The New York Times

Jul 2024 - Present

R&D Software Engineer (Freelance)

- Prototype internal analysis tools using NLP and LLMs to analyze audience insights and identify user engagement patterns using **Python** and **JavaScript**
- Use embeddings to cluster large corpus of texts for cluster identification using **Python** and **TypeScript**
- Rapidly build prototype to research product capabilities and demo R&D's capabilities to potential stakeholders
- Adapt concepts and timelines to guarantee partner satisfaction within a dynamic and fast paced industry

Research & Development Intern

Jun 2023 - Jun 2024

- Developed an augmented reality Instagram effect to accompany The Athletic's NWSL draft coverage using **TypeScript**, reaching 200k+ users on publish
- Prototyped XR experiences to test campaign concepts and platform capabilities using **JS**, and **WebXR**

Georgia Tech: Center for Research and Education in Navigation

May 2024 - Aug 2024

Software Engineer

- Developed 5+ applications using **Unity** and **C#** user testing and data collection for navigational research
- Refactored data collection, increasing efficiency by 25% and saving researchers 10+ hrs of data wrangling
- Provided technical support and guidance for research studies, including interfacing with MRI and ECG machines, resulting in seamless integration and minimal downtime

NASA

Aug 2023 - Dec 2023

Software Engineering Intern

- Developed a visual layering system in **Unity** using **C#** and **XML** for XR climate data visualization, enhancing usability and improving 3D data analysis for NASA researchers
- Collaborated with NASA scientists and UX researchers to determine system requirements, optimizing user interactions and ensuring alignment with project goals.
- Integrated new system into the [MRET](#) codebase, conducting extensive testing to ensure compatibility

Viasat Inc.

May 2022 - Aug 2022

Software Engineering Intern

- Created a data visualization tool with **Python** and AWS Cloudwatch to monitor 90+ event metrics, enabling real-time outage detection and optimizing server performance on EC2 instances
- Developed comprehensive unit tests in **Python** to ensure full automated coverage for newly migrated features, enhancing code reliability and stability

Publications

Zhao, Yuchen, Brandy J. Pettijohn, Amanda Y. Wang, Daniel P. Keehn, Angela Dai, Joy Dang, Janet H. Murray (2021). "Exploring Location-based AR Narrative Design for Historic Site," *PRESENCE: Virtual and Augmented Reality* 2021

Skills

Programming:

Python, JavaScript, TypeScript, Java, C#, HTML, CSS, C, OpenGL, GLSL

Frameworks & Libraries:

React, Svelte, Tailwind, GraphQL, PyTorch, Numpy, OpenCV, Agile

Tools:

Git, AWS, GCP, Docker, Figma, Unity, Adobe Suite, Microsoft Suite