Nithisha Nantha Kumar

734-881-2458 • Ann Arbor, MI 48104
nithisha@umich.edu • LinkedIn • Portfolio

EDUCATION

University of Michigan | College of Literature, Science, and the Arts **Ann Arbor, MI**
Bachelor of Science (Computer Science) *Apr 2024 (expected)*

- **GPA:** 3.86/4.0 (Four-Time University Honors, James B. Angell Scholar)
- **Course Highlights:** Data Structures & Algorithms, Web/Distributed Systems, AI/NLP, XR Development, Databases

TECHNICAL SKILLS

Languages: C++, Python, SQL, C#, Java, TypeScript | **Technologies:** AWS, ReactJS, Angular, Unity, GCP, Docker, Jira, Git

RELATED EXPERIENCE

Niantic, Inc. (Pokémon GO) **San Francisco, CA**
Software Engineering Intern (Core Infrastructure/Trust & Safety Team) *May 2023 – Aug 2023*

- Built content moderation features with Meta's Llama 2.0, AWS SageMaker, Angular, TypeScript, Java, GCP, Docker, Kubernetes - engineered prompts for categorical message flagging, chat summarization to give moderators context, and message translation to reduce dependence on third-party APIs and improve user data privacy.
- Built a safety feature to block/hide harmful URLs w/ 3 tiers of security in Java, GCP, & Protobuf.

University of Michigan College of Engineering **Ann Arbor, MI**
Instructional Aide for XR Software Development (EECS 498) *Jan 2023 – present*

- Assisting faculty to teach a class of 50+ students by holding weekly office hours to demonstrate programming methods for VR/AR projects in Unreal/Unity and answering questions on Piazza.
- Received unanimously positive feedback from students' teaching evaluations.

Amway & University of Michigan Multidisciplinary Design Program **Ann Arbor, MI**
Student Software Engineer *Jan 2023 – present*

- Working with Amway scientists to develop a facial image-processing web app (using machine learning libraries for image-stitching and auto-masking of 10,000+ facial images) in Amway's AWS platform (EC2, S3).
- Documenting code and coordinating tasks on Amway's GitHub as a member of a multi-disciplinary team.

University of Michigan Transportation Research Institute (UMTRI) **Ann Arbor, MI**
Software Engineering Research Intern *May 2022 – Dec 2022*

- Developed an AR Android/iOS mobile app with Unity3D/C#/Vuforia using accurate 3D statistical body shape models to test vehicle designs for accommodation of various occupant body types.
- Tested the app through real-world experiments to ensure accuracy of body shape measurements for use in automobile engineering and medical areas.
- Won the *Blue Ribbon Award* for exceptional presentation of the app during the Spring 2022 Undergraduate Research Symposium at the University of Michigan and third place in the 2022 UMTRI Summer Research Poster Contest.

INDEPENDENT RESEARCH PROJECT

Islamic Star Pattern Animator (Adobe Digital Edge Awards 2023 Winner in Engineering, $1,000 prize)
Adobe After Effects Plugin *Jul 2021 – Aug 2021*

- Coded an Adobe After Effects plugin in C++ called *Pattern* that creates Islamic star pattern motion graphics. *Pattern* is based on a University of Waterloo research paper by Prof. Craig S. Kaplan.
- Developed an algorithm to generate patterns that is faster than the algorithm used in the paper for several cases. Prof. Kaplan recognized and appreciated this algorithm.