

Maitreyee Joshi

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EXPERIENCE

Microsoft, Software Engineer *Planetary Computer*

June 2022 – Present | Cambridge, MA

- Developed a **proxy technique** to minimize network calls, enhancing response times & system uptime. Conducted extensive testing to uncover **critical issues early**, preventing production regressions and outages. Lead to a smoother product release and reliable performance in production
- Re-engineered timeout middleware, **reducing response time by 20%** and enhancing system efficiency for the [Planetary Computer](#)
- Designed a centralized error-handling middleware, standardizing error codes and handlers, **reducing error-handling code by 10%**, improving user satisfaction with clear error messages, and increasing developer productivity by enhancing debugging efficiency
- Implemented comprehensive acceptance testing, including edge cases and performance scenarios, coordinated bug triage across three teams, resolved over **60 bugs**, reduced CI pipeline runtime by **35%** improved product quality, stability, user experience ahead of the private preview

Microsoft, Software Engineer *Azure Space SDK*

February 2022 – June 2022 | Cambridge, MA

- Successfully led the development and deployment of **multiple payload applications to space**, with one application utilizing SDK's infrastructure to run image processing algorithms for analyzing spacecraft-captured imagery. **Successfully ran Dapr in Space for the first time!**
- Developed highly efficient microservices to schedule, deploy, and test applications in air-gapped environments and across multiple processor architectures (AMD64 & ARM64)
- Achieved significant operational improvements by reducing payload deployment time to orbit under 1 hour (from ~2 weeks) and optimizing base container, **resulting in a 72% reduction** in on-orbit updates overhead
- Templatized SDK components resulting in an **impressive 85% reduction** in creation time accelerating the development process

HONORS AND AWARDS

Star Award, Microsoft

May 2024

Awarded to the top 5-8% of the workforce twice annually for exceptional contributions to product quality and reliability. Recognized for enhancing the quality and reliability of the product for its private preview launch.

Microsoft Global Hackathon Winner, Microsoft

October 2023

Awarded top project out of 350+ for "Multilingual Prompt Library for E+D CoPilot scenarios," accelerating quality evaluations for non-English speakers

Huntington 100 Award, Northeastern University

Recognized as one of the **top 100 most influential students** in the graduating batch for outstanding achievements commensurate with the university's mission, ideals, values, and Academic Plan.

TECHNICAL SKILLS

Languages: Python, Julia, C#, Java, C++, JavaScript, React, Racket (Lisp dialect)

Software / Tools: Kubernetes, Docker, Git, OpenGL, Azure, AWS, Dapr

OS: Ubuntu, Windows, MacOS, ARM Architecture

EDUCATION

Northeastern University

December 2021

Khoury College of Computer Sciences

Bachelor of Science in Mathematics and Computer Science

Relevant Classwork: Object-Oriented Design | Software Development | Algorithms | Computer Graphics | Theory of Computation | Linear Algebra | Database Design | Web Development

Researcher, *Northeastern Summer Math Research Program*

May 2021 – June 2021 | Boston, MA

- Collaborate with PhD-student mentor on a research topic, Modeling of Random Geometric Graphs, under the supervision of a faculty member

Association for Women in Mathematics – Northeastern University, Secretary/ Founding member