Arpan Das

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EDUCATION

George Mason University   **Fairfax, Virginia**
B.S. in Computer Science   *Expected Graduation, May 2026*
- o **Concentrations:** N/A
- o **GPA:** 3.75/4.00, *Dean's List*
- o **Related Coursework:** Data Structures & Algorithms, Intro to Low Level Programming, Linear Algebra, Object-Oriented Programming, Probability & Statistics for Engineers/Scientists

EXPERIENCE

Iridium Communications   **Leesburg, Virginia**
Hardware Extern   *May 2023 – Jun 2023*
- Created Python scripts to generate visualizations of satellite telemetry.
- Trained in Attitude Determination and Control Subsystems (ADCS) principles for Iridium NEXT9 launch.
- Utilized Microsoft Excel to keep an inventory of available hardware systems within server rooms.

Mason Experimental Geometry Lab   **Fairfax, Virginia**
Research Intern   *Jan 2024 – Present*
- Utilize Python and its Geometry-Tools and numpy libraries to generate visualizations of semi-homogenous trees with alternating degrees embedded within the Hyperbolic Poincare disk model.
- Develop and research mathematical formulas to optimally embed semi-homogenous trees within the Hyperbolic Poincare disk model.

ASTAR Explorer   **Fairfax, Virginia**
Math Tutor   *Jan 2024 – Present*
- Teach 4th and 5th graders geometry, algebra, and problem-solving skills for math.
- Develop lesson plans, worksheets, and activities for lectures and homework.

ACTIVITIES AND LEADERSHIP

Virginia Space Grant Consortium   **NASA Langley Research Center, Virginia**
Virginia Aerospace Science and Technology Scholars – Cybersecurity Specialist   *Nov 2021 – Jul 2022*
- Developed APA style technical reports of space accident case studies, hypothetical moon mission and Mars mission during online course.
- Developed a budget, cybersecurity measures, crew lists, and risk-management strategies alongside a team of 15 for a hypothetical manned mission to Mars during a summer academy at the NASA Langley Research Center.

The Coding School   **Online**
Qubit by Qubit (QxQ)   *Nov 2020 – May 2021*
- Developed a final project using IBM's quantum computing language and platform Qiskit and Python.
- Learned about Quantum Physics and the fundamentals of Quantum Computing.

PROJECTS

For You   **Ashburn, Virginia**
Technical Lead/CTO   *Mar 2024 – Present*
- Developing a dating app for George Mason University students similar to Tinder.
- Full-Stack app development using React Native for frontend UI and AWS Amplify for user authentication, real-time databases, and backend.

SKILLS

Programming: Python, Java, JavaScript, TypeScript, HTML/CSS, C/C++, IBM Quantum (Qiskit)
Tools: Linux, ArcGIS Pro Enterprise, Autodesk Inventor Professional, Autodesk Fusion 360, React Native, AWS Amplify, Google Firebase