zyphensvc.com | sriaditya.vedantam@gmail.com

# Sriaditya Vedantam

## Curriculum Vitae

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**Name:** Sriaditya Vedantam (professionally: Sri Vedantam)
**Date and Place of Birth:** April 16, 2004; Irving, Texas

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## EDUCATION

**University of Georgia**

Bachelor of Science, Mathematics, Computer Science 2026

## RESEARCH INTERESTS

Algebraic Geometry with extensions onto Discrete Mathematics.

Interested in post-quantum cryptographic algorithms.

## RESEARCH POSITIONS

**University of Georgia**

Undergraduate Research Project 2024

Focus on Exceptional Lie Algebras and their connections to Coxeter-Dynkin Diagrams.

Directed Reading Program Mentee 2023

Spring – Focus on Fermat's Little Theorem

Fall – Focus on Elliptic Curves

**Georgia Institute of Technology**

Research Project 2021

Application into Applied Combinatorics.

Research project involving Dijkstra's algorithm with Eulerian Circuits.

Implementation involved using open maps and coding in Java.

**ImaginaryCTF** 2020 – 2023

Created cryptographic problems using more efficient algorithms from IACR*.

Increased proficiency in reading research papers and applying them to cybsersecurity projects.

## TEACHING EXPERIENCE

**University of Georgia**

Math Tutor 2023 -

Helped tutor precalculus, calculus, and introductory proofs classes.

Peer Learning Assistant 2022 - 2023

Calculus II for Scientists and Engineers

Calculus III for Scientists and Engineers

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* International Association for Cryptologic Research

## ACADEMIC TALKS

*Primes and Fakes, Carmichael and the Twisted Prime Omega Function* 2023

**University of Georgia Directed Reading Program Student Seminar, Athens, GA**

*Rational Solutions to Pythagorean Triples* 2023

**University of Georgia Directed Reading Program Student Seminar, Athens, GA**

## HONORS AND AWARDS

**Kossack Exam** 2023

Placed 3rd place in the 2023 UGA Kossack Calculus Exam.

## COURSEWORK

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|---|---|
| *MATH 2250: Calculus I* | Fall 2022 |
| *MATH 2260: Calculus II* | Spring 2023 |
| *CSCI 2610: Discrete Mathematics* | Spring 2023 |
| *MATH 3200: Introduction to Higher Mathematics* | Spring 2023 |
| *MATH 2700: Elementary Differential Equations* | Summer 2023 |
| *MATH 2500: Calculus III* | Fall 2023 |
| *MATH 3100: Sequences and Series* | Fall 2023 |
| *MATH 6000: Modern Algebra and Geometry I* | Fall 2023 |
| *CSCI 1730: Systems Programming in C* | Fall 2023 |
| *MATH 3000: Linear Algebra* | Spring 2024 |
| *MATH 6010: Modern Algebra and Geometry II* | Spring 2024 |
| *CSCI 2720: Data Structures* | Summer 2024 |
| *MATH 6100: Real Analysis* | Fall 2024 |
| *MATH 8300: Introduction to Algebraic Geometry* | Fall 2024 |
| *CSCI 2670: Theory of Computing* | Spring 2025 |
| *CSCI 4370: Database Management* | Spring 2025 |
| *MATH 8330: Hodge Theory* | Spring 2025 |
| *MATH 8200: Algebraic Topology* | Spring 2025 |
| *MATH 8150: Complex Variables* | Spring 2025 |