Sriaditya Vedantam

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SUMMARY OF QUALIFICATIONS

- Built software engineered with computer vision, research driven scheme implementation, and automation tools.
- Experience in coordinating and communicating with large scale teams and team building.
- Knowledge of customer/client business processes, planning, and strategy development.

WORK EXPERIENCE

Small Satellite Research Laboratory   Athens, GA
Data Science Team Lead Researcher   2024 - Present
- Led a research engineering team of 12 members by defining weekly priorities and short-term milestones.
- Developed implementation reports by utilizing computational topology research with computer vision.
- Worked in coordination with multiple departments and utilized different ML/CV frameworks.

University of Georgia   Athens, GA
Parking Operations Representative   2024 - Present
- Eliminated 6 months of backlog by building a selenium automation workflow that executed 40,000 tasks.
- Increased reporting accuracy and reliability by managing restricted-access operations across campus.
- Maintained financial reports with consistency to corporate compliance and record keeping.

Directed Reading Program Researcher   2023 - Present
- Implemented schemes from current cryptography research by studying ECC and (BSD/rank conjecture).

Undergraduate Researcher Fellow   Fall 2024 – Fall 2025
- Studied Lie algebras and their connection to Coxeter-Dynkin diagrams applying algebraic structures relevant to cryptographic theory.
- Produced research outputs through project implementation supporting current and future implementation work.

ImaginaryCTF.   Leuven, Belgium
Board Member   2020 - 2023
- Increased platform engagement by hosting an international competition with 60,000 participants.
- Coordinating operations and prize logistics with sponsors.
- Improved challenge quality and integrity by designing cryptography problems grounded in current research.
- Utilized and implemented research papers from the International Association for Cryptologic Research (IACR).
- Oversaw teams to enhance efficiency and ensure distribution across network systems for projects and software.

Cornerstone Entertainment Company   Raleigh, NC
Community Specialist Manager   2021
- Improved community retention and engagement by stabilizing staffing operations for a network of 200 users.
- Increased customer satisfaction with a developer team to resolve issues and improve platform reliability.

PROJECT EXPERIENCE

University of Georgia, *Research Conferences*
Rational Solutions to Pythagorean Triples   Fall 2023
- Optimized standard algorithms for finding Pythagorean triples utilizing elliptic curve arithmetic with group law.

Primes and Fakes, Carmichael and the Twisted Prime Omega Function   Spring 2023
- Optimized findings for prime decomposition of numbers, resulting in an computational increase more then 50%.

Georgia Institute of Technology, *Applied Combinatorics*   Fall 2021
- Delivered a graph theory application by implementing Dijkstra's algorithm with Eulerian circuit logic.
- Implemented the application in Java and integrated mapping API calls from Open Maps for real-world route use.

TECHNICAL SKILLS

DevOps: SQL, C, Java, Python, SageMath, Selenium, Fullstack, Javascript/NodeJS.
ML/CV: TensorFlow, PyTorch, Scikit-Learn, OpenCV.
Cloud/Tools: AWS, Azure, MATLAB, Jupyter.
Systems/DB: Linux/Unix, SQL Server, Oracle, MS Access, MySQL.
Certifications: CompTIA Security+, MTA Networks, MTA Software Development.

EDUCATION

University of Georgia, Franklin College of Arts and Science   Athens, GA
Emphasis, Theoretical Computer Science, Cybersecurity & Pure Mathematics.
Bachelor of Science, Computer Science & Mathematics.