



# Tejas Ramesh

 [linkedin.com/in/tejas-ramesh-976203190](https://www.linkedin.com/in/tejas-ramesh-976203190)  [tejasramesh99@gmail.com](mailto:tejasramesh99@gmail.com)  <https://tejas3070.github.io/>

## EDUCATION

---

### George Mason University

*Doctor of Philosophy in Computer Science*

January 2025 - May 2029 (Expected)

### George Mason University

*Master of Science in Computer Science*

*Awards/Recognition: Outstanding Academic Achievement Award*

August 2023 – May 2025

*GPA: 3.9/4.0*

### College of Engineering Guindy, Anna University

*Bachelor of Engineering in Computer Science and Engineering*

August 2017 - April 2021

*GPA: 3.39/4.0*

### Abu Dhabi Indian School, Abu Dhabi

*High school-Affiliated to Central Board of Secondary Education, India*

September 2013 - May 2017

*GPA: 3.78/4.0*

## RELEVANT COURSEWORK

**Courses:** Machine Learning, Big Data Analytics, Operating Systems, Analysis of Algorithms, Software Engineering, Object-Oriented Programming, Data Structures, Calculus, Probability and Statistics, Principles of Management

## SKILLS AND CERTIFICATIONS

---

**Languages:** C/C++, Python, SQL, Java, Bash, MongoDB Query Language (MQL)

**Tools:** Git/GitHub, MS Excel, Hive, Oozie, Databricks, Jupyter, Tableau, Power BI, Amplitude, Putty

**Certifications:** IBM-Data Science Professional Certification, AI Engineering Professional Certification, Applied AI Professional Certification

## PROJECTS

---

### Triton-Viz: A Visualization Toolkit for GPU Programming on Triton Link | *Python*

- Triton-Viz is an innovative GPU Programming Visualization Tool developed to enhance the understanding of GPU operations through Triton, a programming language by OpenAI.
- This tool offers valuable insights into kernel execution, memory management, and the optimization of parallel algorithms.
- The tool visualizes fine grained tensor operations across multiple blocks enabling users to understand how their custom GPU kernel gets executed in the backend.

## PAPERS

---

**Tejas Ramesh**, Alexander Rush, Xu Liu, Binqian Yin, Keren Zhou, Shuyin Jiao. *Triton-Viz: Visualizing GPU Programming in AI Courses*. In The Technical Symposium on Computer Science Education (**SIGCSE TS**), 2025

## EXPERIENCE

---

### Oak Ridge Institute for Science and Education | *Graduate Research at ORNL (GRO)*

May 2025 – Present

Took part in a 2-month long internship program-Graduate Research at Oak Ridge National Laboratory, Tennessee

*Research Areas: High Performance Computing, Performance Analysis*

### Department of Computer Science-George Mason University | *Graduate Teaching Assistant*

January 2025 – Present

SWE619-Object-Oriented Software Specification and Construction

- Core concepts: Software engineering principles in Java.

COMP 511-Computer Programming Foundations II

- Core concepts: Data Structures and Algorithms in Java.

Roles and Responsibilities

- Conducting weekly office hours to help students with their questions.
- Grading homework assignments.

**Department of Computer Science-George Mason University** | *Student Researcher* March 2024 – December 2024  
Large Language Models (LLMs)

- Performance benchmarking serial and parallel C/C++ codes.
- Comparing performance enhancements suggested by static code analyzers with those of LLMs.
- Focused on building LLM agents that tackle Natural Language (NL) Intent to Code generation tasks in the High performance Computing (HPC) Domain.
- Implemented a capable NL-bash command LLM based on Code Llama by Meta.

Tensors and Visualization

- Conducting research on simplifying AI education.
- Visualizing fine grained Tensor operations of kernels written on Triton (developed by OpenAI) in a highly abstracted GPU programming backend execution. Helping in better understanding of AI algorithms.

**LatentView Analytics Ltd.** | *Analyst* August 2021 – July 2023  
Worked with the Email Marketing and Product Analytics team of a Major American software giant from San Jose,CA.

- Created and maintained multiple business dashboards to track KPIs that solved business problems.
- Analyzed various aspects of user's product engagement and conducted full fledged customer journeys.
- Automated multiple workflows in Hive and Databricks using Python.

Achievements: SPOT Award X 1, Encore Award X 1

**Career Hiatus** May 2021 – July 2021  
Transitioning to full-time work post completion of Bachelors degree.

- Spent time in up-skilling for the full-time role.
- Satisfying pre-employment requirements as part of the hiring process and awaiting confirmation on onboarding formalities from the employer.