

Gautham (Sid) Meka

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About Me

Aspiring mathematician and cognitive scientist with Rensselaer Polytechnic Institute (RPI) degree, with a keen interest in applying mathematical and cognitive science principles to artificial intelligence, computing, neuroscience, and psychology; eager to leverage skills in mathematical modeling, machine learning, Computational Vision, Data Mining, Cryptography, and Geographic Information Systems

Skills

Abstract Algebra, Number Theory, Computability Theory, Mathematics in Biological Figures, Capability Maturity Model Integration, Graph Mining, Complex Analysis, Probabilistic Graphical Modeling, General Mathematical Modeling, Evolutionary Game Theory, Principal Component Analysis, Mathematical Methods in Psychological Science, ArcGIS, Computational Vision, Graph Mining, and Machine Learning

Programming Languages and Paradigms

JavaScript, React.js, Python, HTML5, CSS3, SQL, Unity, Three.js, Express.js, Node.js, MongoDB, Java, MATLAB, C#, R, Tensorflow and Keras, PyTorch, numpy, and scipy

Technological Projects

Developing

Christmas BlackJack - Interactive Game Type that Plays BlackJack

- Utilized a appropriate CSS coloring to tell when someone won or lost
 - Deployed on Surge
 - Is interactive rather than the computer stopping at 17 meaning that the computer can know when it is down and it is safe to hit
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Professional Experience

Zolon Tech, Summer Intern

June 2019- August 2019

- Official Dates in Office: July 1 - July 31
- Started Pre Work Late June
- Organized Powerpoints to look presentable and editable for the company
- Worked with the information technician to ensure power was running through the company
- Edited documents to ensure that they were professional and contained no grammatical errors
- Assisted colleagues with Java Programming locally
- Assisted colleagues with Python Programming locally

Harvard University, REU Participant in GIS

May 2023- July 2023

- Official Dates in Office: May 22 - July 7
 - Worked in Center for Geographic Analysis
 - Analyzed Social Media Data from Twitter
 - Worked on Big Data and High Performance Computing
 - Used Data Analysis Methods, such as line of best fit and parabola of best fit
 - Used Confidence Intervals in order to analyze data
 - Used TensorFlow on Data
 - Used the FAS Research Computing Cluster in order to run tasks
 - Worked with ArcGIS
 - Explored the Boston Area
 - Attended Talks by Various Scholars
 - Used R in order to put together files
 - Wrote a Final Report
 - Link to REU Page: gis.harvard.edu/people/sid-meka
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Education

University of Washington: Seattle Campus

September 2024 - June 2025

Master of Science in Applied and Computational Mathematics

Rensselaer Polytechnic Institute

August 2020 - May 2024

Bachelor of Science in Mathematics and Cognitive Science, Cum Laude, GPA: 3.50

- Minor in Computer Science
- Started in the Fall of 2020 as a Games and Simulations Arts and Sciences Major
- Took a break to understand what I wanted to study and had personal conflicts
 - Did General Assembly's Software Engineering Immersive at this time
 - Took Courses at Various Institutions during Spring Semester of 2022
 - Data Structures and Advanced Java Learned at Hudson Valley Community College
 - Mathematics courses done through Northern Virginia Community College
- Switched to a Mathematics Major Summer 2022 Term
- Served as a Logic Mentor for the Fall 2022 Semester and Fall 2023 Semester
- Participated in Mathematical / Interdisciplinary Competition in Modeling in February of 2023
 - Coach: Professor Peter R Kramer
 - Got Awarded Successful Participant
- Member of Chess Club

General Assembly

November 2021 - February 2022

Software Engineering Immersive Audit

- Attended full program, however chose to audit due to college courses starting in January 2022