

# Senthil Rajasekaran

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## SKILLS

I am a PhD student at Rice University working in **theoretical computer science** at the intersection of **automata theory**, **game theory**, and **complexity theory**. Before this, I worked as a **software engineer**. I have experience with **Python**, **C#**, **Java**, **Mathematica**, and **MATLAB**. I enjoy solving **mathematical and algorithmic puzzles**.

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## EDUCATION

**Rice University**, Houston, TX 8/2019 – 5/2025  
PhD in Computer Science  
Advisor: **Dr. Moshe Y. Vardi**

**University of Oxford**, Oxford, UK 9/2016 - 11/2017  
MSc in Mathematics and the Foundations of Computer Science

**Tulane University**, New Orleans, LA 8/2011 – 5/2015  
BS in Mathematics, BS in Economics  
Magna Cum Laude with departmental honors in Mathematics

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## EMPLOYMENT

**Digicomm Inc**, Metairie, LA 2018 – 2019  
Title: **Full Stack Software Engineer**

**Nokia Bell Labs**, Murray Hill, NJ 06/2022 – 09/2022  
Title: **Software Analysis Group Intern**

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## SELECTED WORKS

**Nash Equilibria in Finite-Horizon Multiagent Concurrent Games** AAMAS 2021  
Senthil Rajasekaran and Moshe Y. Vardi

**Verification and Realizability in Finite-Horizon Multiagent Systems** KR 2022  
Senthil Rajasekaran and Moshe Y. Vardi

**Multi-Agent Systems with Quantitative Satisficing Goals** IJCAI 2023  
Senthil Rajasekaran, Suguman Bansal, and Moshe Y. Vardi

**Verifying Nash Equilibria in Finite-Horizon Probabilistic Multi-Agent Concurrent Games** In Submission  
Senthil Rajasekaran and Moshe Y. Vardi

**Verifying Equilibria in Finite-Horizon Probabilistic Concurrent Game Systems** In Submission  
Senthil Rajasekaran and Moshe Y. Vardi

**Multivariate Analysis of Succinctly Represented Multi-Agent Systems** In Preparation  
Senthil Rajasekaran and Moshe Y. Vardi

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## SELECTED MEDIA

**Invited talk at the Simons Institute** (leading institution for theoretical computer science)  
<https://www.youtube.com/watch?v=2RBoaPIrvQY>

**Feature in Rice CS News** <https://csweb.rice.edu/news/quantitative-goal-approach-game-theory-problem-could-be-important-building-block>

**Blog** (contains some old writing and programming projects) <https://bogobogosort.wordpress.com/>