GARRETT SEO

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EDUCATION

M.S. Computer Science   **Sep 2024 - May 2026**
Rutgers University | GPA: 4.00

- Thesis: "Understanding Strategic Platform Entry and Seller Exploration: A Stackelberg Model" | Advisor: Xintong Wang
- Relevant Courses: Economics and Computation, Foundations of Learning, Recent Advances in LLMs, Natural Language

B.S. in Computer Science, B.A. in Mathematics   **Sep 2021 - May 2024**
Rutgers University | GPA: 3.98 | Highest Honors in Computer Science | Summa Cum Laude

- Relevant Courses: Intro to Artificial Intelligence, Real Analysis, Probability Theory, Linear Algebra

RESEARCH EXPERIENCE

Research Assistant   **Jun 2024 - Present**
Rutgers University

- First-author paper under submission on how platforms, like Amazon, enter third-seller products using game-theoretical models
- Efficiently computed optimal platform policies and optimal seller strategy using Gittins index in single-seller environments
- Built independent Deep-Q Network agents (Pytorch) to approximate ε-Nash equilibrium seller behavior in multi-seller environments
- Paper • Code

Competitor - Automated Negotiating Agents Competition (ANAC) 2025   **April 2025 - Aug 2025**
Rutgers University

- Won 1st place out of 17 international teams; results presented at International Joint Conferences on Artificial Intelligence 2025
- Led a three person team, building an agent for sequential one-to-many negotiations with combinatorial deal rewards
- Implemented a negotiation agent that used probabilistic lookahead search and curve-fitting to model opponent behavior
- Presentation • Poster • Code

TEACHING EXPERIENCE

Teaching Assistant - Economics and Computation   **Sep 2025 - Present**
Rutgers University

- Held office hours and graded homeworks on game theory, auctions, mechanism design, matching, information elicitation, and prediction markets

Teaching Assistant - Intro to Artificial Intelligence   **Sep 2024 - Dec 2024**
Rutgers University

- Conducted recitations and office hours on topics like search, Bayesian networks, reinforcement learning, and neural networks
- Won 2024-2025 Excellent TA Award and received instructional rating 4.7/5.0

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer Intern   **Jun 2023 - Aug 2023**
Bluevine

- Built backend pipelines for credit card transaction reports, frontend admin components for authorized users, and improved automation coverage by 13%

SKILLS

Languages: Python, Java, C/C++
Frameworks & Libraries: Pytorch, Numpy, Huggingface, Matplotlib, Pandas
Hobbies & Interests: Powerlifting, Poker, Teaching, Reading Fiction