

Eldad Tolla

(240) 355-2970 | ewt2121@columbia.edu | linkedin.com/in/eldad-tolla-441166219

EDUCATION

Columbia University, School of Engineering and Applied Science	New York, NY
<i>B.S. in Computer Science and Mathematics</i> GPA: 4.00	May 2027
– Dean's List (All Semesters), NSF SUPER Scholar, CS + Math Most Outstanding Student, Academic MVP	

EXPERIENCE

Research Intern — Texas Advanced Computing Center (TACC), UT Austin	May 2025 – Aug 2025
<i>NSF REU in High-Performance Computing and AI</i>	Austin, TX
– Implemented warm-start Q-learning agents in Pac-Man using DFS and ClosestDotSearch, achieving 38–62% faster convergence and 67–133% higher final performance vs. cold-start baselines	
– Designed and executed 15 independent experiments across 1000 episodes in two environments, demonstrating an 89% improvement in win rate (45% → 85%)	
– Benchmarked DFS vs. ClosestDot initialization strategies across 90 GPU HPC nodes , identifying DFS as more stable and ClosestDot as faster-converging for optimal warm-start performance	
AI Agent Builder Intern — NeuralSeek	Aug 2025 – Present
<i>Remote</i>	
– Built and deployed 10 production AI agents for 2 enterprise clients , automating policy, compliance, and document-search workflows using no-code pipelines and tool-augmented LLM orchestration	
– Integrated OpenAI LLMs with vector databases containing 10k + documents , enabling RAG that improved search relevance by ~30% and reduced hallucinations by ~40%	
– Optimized agent pipelines through prompt routing and retrieval tuning, reducing response latency by 25% and improving answer accuracy by ~20% for enterprise workflows	
Computer Science Research Intern	Aug 2024 – Aug 2025
<i>Randolph College</i>	Lynchburg, VA
– Built interactive D3.js dashboards analyzing 10+ years of USDA crop and weather data, enabling researchers to identify rainfall and temperature patterns driving crop yield variation	
– Engineered 25 + climate features and built regression models achieving ~0.75 R² to identify key climate–crop correlations used to guide yield optimization strategies	
Computer Science and Math Tutor	Aug 2023 – Aug 2025
<i>Randolph College</i>	Lynchburg, VA
– Delivered 250+ hours of tutoring to 20+ students , increasing average exam scores by 15%	
– Created 40+ custom proof walkthroughs and coding exercises across calculus, discrete math, and programming to strengthen conceptual understanding and problem-solving	
IT Help Desk Assistant	Aug 2024 – Aug 2025
<i>Randolph College</i>	Lynchburg, VA
– Resolved 20+ weekly technical support tickets for 300+ users while maintaining 100% adherence to 24-hour service-level agreements	
– Implemented a digital inventory system tracking 200 + devices , reducing equipment retrieval time by ~40% and improving emergency response efficiency	

PROJECTS

Voice Aid — AI Speech Recognition <i>Python, NLP, ML</i>	
– Built LSTM and Transformer-based speech recognition models, improving communication accuracy by 60% for users with speech impairments compared to baseline systems	
Recall Royale <i>Flask, React, JavaScript, SQLite</i>	
– Developed a real-time collaborative quiz platform during a competitive hackathon, supporting 50+ concurrent users with live lobbies, shared sessions, and dynamic question generation for group study	

LEADERSHIP

Judiciary Chair, Student Representative	Aug 2023 – Present
<i>Randolph College</i>	
– Mediated 30+ cases per semester and implemented restorative justice, reducing repeat offenses by 40%	
Presidential Ambassador	Aug 2024 – Present
<i>Randolph College</i>	
– Represented the college at 20+ recruitment and donor events , engaging 300+ prospective students and alumni to support enrollment and donor outreach	

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, SQL, R
Frameworks/Tools: PyTorch, TensorFlow, Flask, React, Node.js, AWS, Git
Coursework: Data Structures, Algorithms, Machine Learning, Reinforcement Learning, Linear Algebra, HPC