

John Smith

U.S. Citizen

Computer Science PhD Student
Stanford University

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TECHNICAL SKILLS	<ul style="list-style-type: none">• Programming Languages: Python, C/C++, Java, Rust• Frameworks & Libraries: PyTorch, TensorFlow, JAX, Hugging Face, scikit-learn• Development & DevOps Tools: Docker, Kubernetes, CI/CD, Git/GitHub• Cloud & Infrastructure: AWS, GCP, SLURM cluster management• Languages: English (Native), Spanish (Conversational)	
EDUCATION	<p>Stanford University 2022-2027</p> <p>Ph.D. in Computer Science</p> <ul style="list-style-type: none">• GPA: 4.0/4.0• Advisor: Dr. Alice Johnson• Knight-Hennessy Scholar <p>University of California, Berkeley 2018-2022</p> <p>Honors Bachelor of Science in Computer Science</p> <p><i>Minor in Mathematics</i></p> <p><i>Minor in Statistics</i></p> <ul style="list-style-type: none">• GPA: 3.9/4.0 Summa Cum Laude• Regents' and Chancellor's Scholar• Dean's Honor List (all semesters)	
WORK EXPERIENCE	<p>Graduate Research Assistant Reliable AI Lab</p> <p>Stanford University</p> <ul style="list-style-type: none">• Advised by Dr. Alice Johnson• Developed novel methods for uncertainty quantification in large language models• Designed scalable training pipelines for distributed model fine-tuning• Published and presented research at top ML and NLP conferences <p>Teaching Assistant CS 229: Machine Learning</p> <p>Stanford University</p> <ul style="list-style-type: none">• Aided professor in instruction of this foundational graduate course• Held weekly office hours and review sessions for 200+ students• Developed new homework assignments on deep learning and optimization• Mentored undergraduate students on course research projects <p>Research Intern Applied AI Research Group</p> <p>Microsoft Research</p> <ul style="list-style-type: none">• Investigated few-shot learning techniques for code generation• Contributed to an internal tool for automated code review using transformer models• Collaborated with a team of 5 researchers on a publication submitted to NeurIPS	<p>August 2022 - Present</p> <p>Stanford, CA</p> <p>January 2024 - Present</p> <p>Stanford, CA</p> <p>May 2021 - August 2021</p> <p>Redmond, WA</p>

SELECTED PUBLICATIONS	J. Smith, R. Patel, and A. Johnson, “Calibrated Uncertainty Estimation for Large Language Models via Conformal Prediction.” <i>2024 International Conference on Machine Learning (ICML)</i>	
	M. Chen, J. Smith, and A. Johnson, “Efficient Fine-Tuning of Vision-Language Models with Structured Pruning.” Submitted to IEEE Transactions on Pattern Analysis and Machine Intelligence. <i>(under revision)</i>	
	J. Smith, L. Wang, and D. Garcia, “Scaling Laws for Few-Shot Code Generation with Retrieval-Augmented Transformers.” <i>2023 Conference on Neural Information Processing Systems (NeurIPS)</i>	
RESEARCH INTERESTS	<ul style="list-style-type: none">• Machine Learning• Natural Language Processing• Uncertainty Quantification	<ul style="list-style-type: none">• Trustworthy AI• Few-Shot and Transfer Learning• AI for Code
OPEN-SOURCE CONTRIBUTIONS	<ul style="list-style-type: none">• ConformalLLM: Developed and open-sourced a Python library for applying conformal prediction to large language model outputs; 500+ GitHub stars and adopted by two research groups.• PyTorch Documentation: Contributed tutorial improvements and bug fixes to the official PyTorch documentation and examples repository.	
SERVICE	Co-Founder and President of CS Graduate Student Council Stanford University	August 2023 - Present Stanford, CA
	<ul style="list-style-type: none">• Founded a graduate student organization to advocate for CS PhD student needs• Organized professional development workshops and networking events• Coordinated with department leadership on curriculum and qualifying exam feedback• Grew membership from 15 founding members to 120+ active participants	
	Undergraduate Research Mentor Stanford University	August 2023 - May 2024 Stanford, CA
	<ul style="list-style-type: none">• Mentored three undergraduate students on independent ML research projects• Guided students in Python, PyTorch, experiment design, and scientific writing	
HONORS AND AWARDS	Best Paper Award at ICML Workshop on Reliable ML Recognized for novel contributions to uncertainty quantification in language models	July 2024
	Knight-Hennessy Scholarship at Stanford University Full-ride scholarship for graduate students demonstrating leadership and civic commitment	August 2022
	Summa Cum Laude Honors at UC Berkeley Berkeley, CA	May 2022
	CRA Outstanding Undergraduate Researcher Honorable Mention National recognition for undergraduate research contributions in computer science	December 2021