

John Smith

U.S. Citizen

Computer Science PhD Student Stanford University

CONTACT

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TECHNICAL SKILLS

- **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

Stanford University | 2022-2027

Ph.D. in Computer Science

- GPA: 4.0/4.0
- Advisor: Dr. Alice Johnson
- Knight-Hennessy Scholar

University of California, Berkeley | 2018-2022

Honors Bachelor of Science in Computer Science

Minor in Mathematics

Minor in Statistics

- GPA: 3.9/4.0 Summa Cum Laude
- Regents' and Chancellor's Scholar
- Dean's Honor List (all semesters)

WORK EXPERIENCE

Graduate Research Assistant | Reliable AI Lab

August 2022 - Present

Stanford, CA

Stanford University

- 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

Teaching Assistant | CS 229: Machine Learning

January 2024 - Present

Stanford, CA

Stanford University

- 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

Research Intern | Applied AI Research Group

May 2021 - August 2021

Redmond, WA

Microsoft Research

- 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

SELECTED PUBLICATIONS	<p>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></p> <p>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>)</p> <p>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></p>
RESEARCH INTERESTS	<ul style="list-style-type: none"> Machine Learning Natural Language Processing Uncertainty Quantification 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	<p>Co-Founder and President of CS Graduate Student Council August 2023 - Present Stanford University Stanford, CA</p> <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 <p>Undergraduate Research Mentor August 2023 - May 2024 Stanford University Stanford, CA</p> <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	<p>Best Paper Award at ICML Workshop on Reliable ML July 2024 Recognized for novel contributions to uncertainty quantification in language models</p> <p>Knight-Hennessy Scholarship at Stanford University August 2022 Full-ride scholarship for graduate students demonstrating leadership and civic commitment</p> <p>Summa Cum Laude Honors at UC Berkeley May 2022 Berkeley, CA</p> <p>CRA Outstanding Undergraduate Researcher Honorable Mention December 2021 National recognition for undergraduate research contributions in computer science</p>