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 University — Stanford, CA
- 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 University — Stanford, CA
- 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
Microsoft Research — Redmond, WA
- 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

J. Smith, R. Patel, and A. Johnson, "Calibrated Uncertainty Estimation for Large Language Models via Conformal Prediction." *2024 International Conference on Machine Learning (ICML)*

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. *(under revision)*

J. Smith, L. Wang, and D. Garcia, "Scaling Laws for Few-Shot Code Generation with Retrieval-Augmented Transformers." *2023 Conference on Neural Information Processing Systems (NeurIPS)*

RESEARCH INTERESTS

- Machine Learning
- Natural Language Processing
- Uncertainty Quantification
- Trustworthy AI
- Few-Shot and Transfer Learning
- AI for Code

OPEN-SOURCE CONTRIBUTIONS

- **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 August 2023 - Present
Stanford University Stanford, CA

- 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 August 2023 - May 2024
Stanford University Stanford, CA

- 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 July 2024
Recognized for novel contributions to uncertainty quantification in language models

Knight-Hennessy Scholarship at Stanford University August 2022
Full-ride scholarship for graduate students demonstrating leadership and civic commitment

Summa Cum Laude Honors at UC Berkeley May 2022
Berkeley, CA

CRA Outstanding Undergraduate Researcher Honorable Mention December 2021
National recognition for undergraduate research contributions in computer science