

Justin Stamets

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Senior Full-Stack Software Engineer

RESEARCH INTERESTS

Health and wellness research · Natural language processing · Machine learning · Cognitive science

EXPERIENCE

Leidos

August 2023 – Present

Senior Full-Stack Software Developer

- Created domain adaptation of clinical language models to model health content of service members and presented research at the [Military Health System Research Symposium](#)
- Collaborated with an interdisciplinary team of operational domain experts, data scientists, and health scientists to create machine learning models that predict physical fitness outcomes and presented research at the American College of Sports Medicine conference
- Served as technical liaison to institutional review boards, maintaining protocol documentation for human-subjects research
- Queried large-scale electronic health records and operational data sources for cohorts of up to 2.5 million service members

Capgemini

November 2020 – December 2022

Full-Stack Software Developer

- Migrated legacy insurance systems to a modern microservice cloud architecture with Amazon Web Services
- Designed and implemented auto-scaling serverless solutions to optimize resource utilization and handle variable traffic loads
- Developed responsive frontend applications using React and Vue.js alongside user experience teams to ensure intuitive user interfaces

Infosys

June 2018 – November 2020

Software Developer

- Coordinated with international teams deploying solutions for aerospace manufacturing systems across the United States
- Documented, analyzed, and resolved software bugs in legacy systems

Indiana University

May 2016 – August 2016

Undergraduate Researcher

- Extracted and cleaned large collections of text from the [HathiTrust](#) library for the [Internet Philosophy Ontology project](#)
- Applied unsupervised machine learning algorithms to model topical content of large text resources
- Leveraged tools and insights to address research questions, such as the reading and writing practices of Charles Darwin

University of Notre Dame

May 2015 – August 2015

National Science Foundation Researcher

- Investigated ethics education in nanotechnology using natural language processing
- Collaborated with an interdisciplinary group of researchers and departments to address research questions
- Published experiments and results in [Science and Engineering Ethics](#) — Dempsey, Stamets & Eggleston, 2017

PUBLICATIONS

- Dempsey, J., Stamets, J., & Eggleston, K. (2017). Stakeholder views of nanosilver linings: Macroethics education and automated text analysis through participatory governance role play in a workshop format. [Science and Engineering Ethics](#), 23(3), 913–939

CONFERENCE PRESENTATIONS

- Stamets, J., Robinson, M., Smith, R., & Macgregor, A. (2026). Continually adapting language models for Sailor clinical notes [Oral presentation]. Abstract MHSRS-26-4239, [Military Health System Research Symposium](#)
- Stamets, J., Robinson, M., Smith, R., & Macgregor, A. (2026). Longitudinal predictors of cardiovascular fitness in the Navy Physical Readiness Test [Oral presentation]. American College of Sports Medicine Annual Meeting
- Stamets, J., et al. (2026). Sequential models of fitness outcomes in the Navy Physical Readiness Test [Oral presentation; co-author]. International Congress on Soldier Physical Performance

Blue text indicates clickable links.

EDUCATION

Georgia Institute of Technology

2023

Master of Science, Computer Science — specialization in machine learning

Indiana University

2018

Bachelor of Science, Cognitive Science

Bachelor of Arts, Computer Science

Bachelor of Arts, Philosophy

AWARDS

Jean Derdula Mick Scholarship

May 2017

Best honors thesis in ethical philosophy

Biddle Service Award

May 2017

Indiana University Department of Philosophy — awarded jointly

Cognitive Science Outstanding Contribution Award

May 2016

Indiana University

ACADEMIC SERVICE

Indiana University Undergraduate Philosophy Organization

August 2016 – May 2018

President

- Volunteered with the IU Philosophy department to host events with well-known philosophers like John Searle
- Hosted paper reviews and special lecture sessions on specialized topics like German Idealism and philosophy of mind

Midwest Undergraduate Cognitive Science Conference

August 2015 – May 2016

President

- Organized a regional undergraduate science conference
- Coordinated with student groups and university departments to raise funding

Indiana University Cognitive Science Organization

August 2014 – May 2015

President

- Hosted events with well-known cognitive scientists like Daniel Dennett and Douglas Hofstadter
- Led discussion and helped introduce students to novel research

TECHNICAL SKILLS

Causal inference	PyWhy ecosystem (DoWhy, EconML), causal graphs & structural causal models, treatment-effect estimation
EEG analysis	MNE-Python, digital signal processing (filtering, artifact rejection, spectral features), real-time inference (ONNX)
Data science	Python, pandas, NumPy, scikit-learn, PyTorch, Seaborn, statistical modeling
Unsupervised learning	clustering, topic modeling, dimensionality reduction, representation learning
Cloud & back end	AWS (SageMaker, Lambda), Azure, PostgreSQL, Django, Node.js, RESTful APIs