

Jordan T Thayer  
Research Scientist & Developer

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## Education

PhD in Artificial Intelligence      University of New Hampshire      2006 - 2012  
Thesis: Heuristic Search Under Time and Quality Bounds  
Advisor: Wheeler Ruml

B.S. in Computer Science      Rose-Hulman Institute of Technology      2002-2006

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## AI Practice Lead      SEP      2019 - Present

Built SEP's AI practice from the ground up. Responsibilities include:

- Technical sales, explaining cost/benefit of applying AI for business needs
- Hiring other AI Experts
- Teaching AI techniques to fellow engineers
- Public speaking (workshops, technical talks, outreach)
- Technical leadership and individual contributor for AI-enhanced systems in many industries
  - Automated board edging in lumber mills (computer vision, heuristic search)
  - Scoring of pre-interview screening tests (NLP, static analysis, LLMs)
  - Planning municipal road network maintenance (machine learning, heuristic search)
  - Predictive maintenance of turbine engines (machine learning)
- Languages used include Python, F#, C++, javascript

## Staff Scientist,      Codiscope, Synopsys,      2017 - 2018

Lead scientist for a static analysis and cybersecurity startup. Combined expert systems, cloud computing, and static analysis for code checking as part of a CI/CD pipeline.

## Sr Member Technical Staff,      Draper Labs,      2015 - 2017

Wrote and fulfilled grants. Notable projects included analysis of java byte code to identify timing attacks, and validating the manufacturability of microfluidics devices using computational geometry.

## Researcher, Smart Information Flow Technologies, 2012 - 2015

Wrote and fulfilled grants. Notable projects include probabilistic verification of controllers for critical systems, automated program repair, and an entrant in DARPA's Cyber Grand Challenge.

**A references, selected publications & presentations, and a full CV are available on request.**