

JOSHUA T. GUERIN | Professional Resume

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• Martin, TN

• ☎ (859) 576-2726

• GitHub

• LinkedIn

• Facebook

SUMMARY & SKILLS

Computer Science Professor • AI Specialist • Strongman

SPECIALIZED SKILLS

Answer Set Programming | Knowledge Representation and Reasoning

Logic Foundations of AI | Logical & Functional Programming | SAT Solvers

PROGRAMMING LANGUAGE

Experienced: C | C++ | Clingo (Answer-Set Dialect) | Haskell | Java | Python

Familiar: Javascript | Lisp | Matlab | Perl | PHP | Prolog | R | Shell Scripting | SQL

FRAMEWORKS & TOOLS

Docs Generators | Git | Graphviz/DOT Language | \LaTeX | Unix CLI

EDUCATION

UNIVERSITY OF KENTUCKY

Lexington, KY

Ph.D., Computer Science

2012

Dissertation

Graphical Models for Decision Support in Academic Advising.

Relevant Coursework

Algorithm Design | Artificial Intelligence | Bayesian AI

Boolean Functions | Data Mining

Database Systems | Declarative Programming

Programming Languages

M.S., Computer Science

2010

Graduate Certificate, Cognitive Science

2009

TRANSLYVANIA UNIVERSITY

Lexington, KY

B.A., Computer Science

2002-2006

Minor: Psychology

EXPERIENCE

UNIVERSITY OF TENNESSEE AT MARTIN

Martin, TN

Professor

2021-present

Department Chair

2018-2021

Interim Department Chair

2017-2018

Associate Professor

2016-2021

Assistant Professor

2012-2016

UNIVERSITY OF KENTUCKY

Lexington, KY

Research Fellowship

2012

Lexington Herald-Leader Research Fellowship

TRANSLYVANIA UNIVERSITY

Lexington, KY

Part-Time Instructor

Fall 2011

UNIVERSITY OF KENTUCKY

Lexington, KY

Teaching & Research Assistant

2007-2011

EXAMPLE PROJECTS/CODE

DPLL

All examples are available on <https://github.com/joshuaguerin>.

- A Haskell [implementation of the DPLL algorithm](#) for CNF satisfiability.

DOQMNT

- An [Emacs extension](#) for interactive generation of function/class/file documentation.

ANSWER SET PROGRAMMING "ALGORITHMS"

- A set of classical (NP-Complete/Hard) [problems](#) solved in Clingo.

KATTIS SOLUTIONS

- A [set of solutions](#) for problems on open.kattis.com/.

SAMPLE SCHOLARLY ACTIVITIES

"The art of answer set solving." (Book in progress, working title.)

"SCWTN: Secure Computing in the Western TN Region" NSF Secure and Trustworthy Cyberspace (SaTC) Grant Proposal. NSF Proposal ID: 2006461. 2019

- For creation of one of the first cybersecurity programs in the state.
- Funding secured by university/Tennessee system.

Kathleen Ericson and Joshua T. Guerin, "doqmnt: Lowering Barriers for Better Documentation." (Abstract) Proceedings of the ACM Mid-Southeast Chapter Conference, Gatlinburg, TN, November 2021.