
Education 2006-present The University of Virginia Charlottesville, VA
M.C.S. in Computer Science - May 2008
Currently pursuing Ph.D. in Computer Science Adviser: Westley Weimer

Research area: Human Factors in Programming Languages and Software Engineering

Selected Coursework:

Design and Analysis of Programming Languages
Programming Language Paradigms for Sensor Networks
Software Engineering
Safety Critical Computing
Temporal Issues in Computing

2002-2006 The Johns Hopkins University Baltimore, MD
B.S. in Computer Science

**Recent
Research**

For more detail on these projects and others visit arrestedcomputing.com

Automatic Documentation Inference for Exceptions (Submitted to ISSTA 2008):

We present a fully automated tool that statically infers and characterizes exception-causing conditions in Java programs. Our tool is based on an inter-procedural, context-sensitive analysis. The output of this tool is well-suited for use as human-readable documentation.

A Metric for Software Readability (Submitted to ISSTA 2008)

With data collected from human annotators, we derive associations between a simple set of local code features and human notions of readability. Using those features, we construct an automated readability measure. We show that this metric correlates strongly with two traditional measures of software quality, code changes and defect reports and discuss the implications of this study on programming language design and engineering practice.

Dynasty (InfoViz 2006)

A sophisticated visualization tool for very large or infinite hyper graphs.

NEQUM (2006):

A tool for back testing equity trading strategies and predicting stock movements based on news articles.

Languages

c, c++, c#, Java, OCaml, Python, SQL, PHP, HTML, Matlab & others