

Cody Kinner

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📄 kinneerc.github.io

Education

Institute for Software Research, Carnegie Mellon University

PhD Software Engineering, Advisors: Claire Le Goues, David Garlan

Pittsburgh, PA

In Progress

Allegheny College

Bachelor of Science in Computer Science, 3.798/4.000

Meadville, PA

2016

Minor: Political Science

Undergraduate Thesis

Title: *Query-aware Search-based Schema Testing*

Supervisors: Dr. Gregory M. Kapfhammer, Dr. Robert Roos

Description: Generating test data for relational database queries increases the realism of testing and is a step towards comprehensive testing of database dependent applications.

Publications

Cody Kinner, Gregory M. Kapfhammer, Chris J. Wright, and Phil McMinn. Automatically evaluating the efficiency of search-based test data generation for relational database schemas. In *Proc. of 27th SEKE*, 2015.

Cody Kinner, Gregory M. Kapfhammer, Chris J. Wright, and Phil McMinn. Expose: Inferring worst-case time complexity by automatic empirical study. In *Proc. of 27th SEKE*, 2015.

Phil McMinn, Chris J. Wright, Cody Kinner, Colton J. McCurdy, Michael Camara, and Gregory M. Kapfhammer. *SchemaAnalyst*: Search-based test data generation for relational database schemas. In *Proc. of 32nd ICSME*, 2016.

Experience

Research.....

Allegheny College

Cupper Scholar

Meadville, PA

Summer 2015

Database testing, search-based test data generation, and performance evaluation

- o Developed technique for automated empirical analysis of test data generation tools.
- o Conducted a large-scale experiment using a high performance computer cluster.
- o Presented results at an international conference and gave a technical demonstration during poster session.

University of Colorado Colorado Springs

NSF REU, Dr. Kristen Walcott-Justice

Colorado Springs, CO

Summer 2014

Mobile application testing and machine learning

- o Studied behavior of Android applications and test suites using aspect-oriented programming.
- o Evaluated test suite adequacy by probabilistic comparison to user interactions.
- o Communicated research by writing reports and delivering presentations.

Teaching.....

ILead PA, Professional Conference

Harrisburg, PA

Instructor

June 2015, 2016

Taught an interactive two hour class on embedded systems programming projects for libraries.

Allegheny College

Meadville, PA

Computer Science Tutor

Fall 2014–Spring 2016

Reinforce lab assignment content to computer science students during weekly drop-in hours.

Allegheny College

Meadville, PA

Freshman Seminar Teaching Assistant, Dr. Howard Tamashiro

Spring 2014

Assisted transfer students with writing skills and adapting to life at Allegheny College.

Vocational.....

Meadville Public Library

Meadville, PA

Information Technology Department

2012–2016

Design and implement software, analyze data, automate reports

- Integrated Adobe Content Server with library's online catalogue for a statewide ebook hosting project.
 - <http://catalog.paliberty.net/>
- Developed computer-vision gate counters for reporting library visitors.
- Analyzed public Wi-Fi usage of nine public libraries in Crawford County.

Skills

Languages: Experienced: Java, \LaTeX , R

Working knowledge: Python, C, Perl

Software: Git, Eclipse, Vim, Linux, Windows

Awards

Best Senior Thesis Prize: Departmental award for writing the best undergraduate thesis.

Outstanding Senior Major: Prize for achievement and contribution to the life of the department.

Certificate of Appreciation: From the PA Department of Education for contributing to ILead.

Alden Scholar: (Dean's List) Fall 2012–Spring 2016.

Outstanding Junior Major: Prize for the computer science junior major with the highest GPA.

Software

ExpOse: Automatically conduct empirical performance evaluations.

- <https://github.com/kinneerc/ExpOse>

cv-counter: Track the number of visitors moving through a doorway using computer vision.

- <https://github.com/kinneerc/cv-counter>

giv-planner: Uses Google APIs to plan college operated shuttle van routes.

- <https://github.com/kinneerc/giv-planner>

Contact

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