Cody Kinneer

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⌨ kinneerc.github.io

Education

Allegheny College   **Meadville, PA**
Bachelor of Science in Computer Science, 3.790/4.000   *Anticipated 2012–2016*
Minor: Political Science

Undergraduate Thesis

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

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

Description: The results of automated testing tools are often difficult to interpret. The addition of query-awareness to test data generation allows the user to specify relational database queries to serve as tests, making it easier for the tester to find bugs in relational database schemas.

Publications

Cody Kinneer, Gregory M. Kapfhammer, Chris J. Wright, and Phil McMinn. Automatically evaluating the efficiency of search-based test data generation for relational database schemas. In *The 27th International Conference on Software Engineering and Knowledge Engineering, SEKE 2015*, pages 352–357, 2015.

Cody Kinneer, Gregory M. Kapfhammer, Chris J. Wright, and Phil McMinn. Expose: Inferring worst-case time complexity by automatic empirical study. In *The 27th International Conference on Software Engineering and Knowledge Engineering, SEKE 2015*, pages 730–731, 2015.

Experience

Research..

Allegheny College   **Meadville, PA**
Cupper Scholar   *Summer 2015*
Database testing, search-based test data generation, and performance evaluation
Detailed achievements:
○ Developed technique for automated empirical analysis of test data generation tools.
○ Conducted a large-scale experiment using a high performance computer cluster.
○ Presented results at an international conference and gave a technical demonstration during poster session.

University of Colorado Colorado Springs   **Colorado Springs, CO**
National Science Foundation Research Experience for Undergraduates   *Summer 2014*
Mobile application testing and machine learning
Detailed achievements:
○ Studied behavior of Android applications and test suites using aspect-oriented programming.
○ Evaluated test suite adequacy by probabilistic comparison to user interactions.
○ Communicated research by writing reports and delivering presentations.

Teaching

Allegheny College   **Meadville, PA**
Computer Science Tutor   *Fall 2014–Present*
Reinforce lab assignment content to computer science students during weekly drop-in hours.

ILead PA, Professional Conference   **Harrisburg, PA**
Instructor   *June 2015*
Taught an interactive two hour class on embedded systems programming projects for libraries.

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–Present*
Design and implement software, analyze data, automate reports
Detailed achievements:
- 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

Certificate of Appreciation: From the PA Department of Education for contributing to ILead.
Alden Scholar: (Dean's List) Fall 2012–Present.
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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Twitter: @cbkinneer   **LinkedIn**: linkedin.com/in/kinneerc