Daniel E. Krutz

Software Engineering Department

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1. **Professional Preparation**

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| --- | --- | --- |
| St. John Fisher College  Rochester, NY | Computer Science, History | BS, 2004 |
| RIT  Rochester, NY | Software Design and Management | MS, 2007 |
| Nova Southeastern University  Ft. Lauderdale, FL | Computer Science | PhD, 2013 |

1. **Appointments**

|  |  |
| --- | --- |
| 9/10-present | **Lecturer,** Software Engineering Department, RIT |
| 8/09-8/10 | **Technology Consultant,** Mindex Technologies |
| 2/09-8/09 | **Sr. Software Engineer,** 5Linx Enterprises |
| 5/04-1/09 | **R&D Software Developer,** Xerox Corporation |

1. **Products**

Related to project

1. **Krutz, Daniel** & Malachowsky, Samuel 2016 “Teaching Android Security Through Examples: A Publicly Available Database of Vulnerable Apps” - ACM InRoads
2. Munaiah, Nuthan; Klimkowsky, Casey; Trudeau, Shannon; Blaine, Adam; Malachowsky, Samuel; Perez, Cesar and **Krutz, Daniel**. 2016 “Darwin: A Static Analysis Dataset of Malicious and Benign Android Apps” - International Workshop on App Market Analytics (WAMA 2016)
3. **Daniel Krutz**, Nuthan Munaiah, Andrew Meneely and Samuel Malachowsky 2016. “Examining the Relationship between Security Metrics and User Ratings of Mobile Apps: A Case Study” - International Workshop on App Market Analytics (WAMA 2016)
4. **Krutz, Daniel**; Mirakhorli, Mehdi; Malachowsky, Samuel; Ruiz, Andres; Peterson, Jacob & Filipski, Andrew. 2015 “A Dataset of Open-Source Android Applications” (MSR)
5. **Krutz, Daniel**; Meneely, Andrew & Malachowsky, Sam 2015 “An Insider Threat Activity in a Software Security Course'”, Frontiers in Education Conference (FIE)

Others of significance

1. **Krutz, Daniel** & Mirakhorli, Mehdi. 2016 “Architectural Clones: Toward Tactical Code Reuse” ACM Symposium on Applied Computing (SAC)
2. **Krutz, Daniel**; Kaplan, Jayme; Jones, Scott & Malachowsky, Sam. 2015 “Enhancing the Educational Experience for Deaf and Hard of Hearing Students in Software Engineering”, Frontiers in Education Conference (FIE)
3. **Krutz, Daniel**; Malachowsky, Samuel & Shihab, Emad. 2015 “Examining the Effectiveness of Using Concolic Analysis to Detect Code Clones” ACM Symposium on Applied Computing (SAC)
4. **Krutz, Daniel** & Le, Wei. 2014 “A Code Clone Oracle” Mining Software Repositories (MSR)
5. **Krutz, Daniel** & Shihab, Emad. 2013 “CCCD: Concolic Code Clone Detection”, Working Conference on Reverse Engineering (WCRE)
6. **Synergistic Activities**
7. Conducted multiple outreach events for underrepresented college and High School students.
8. Created initial set of educational Android modules, which have been used at several outreach events.
9. Recent development efforts include teaching undergraduate courses in defensive coding practices
10. Member of the Software Engineering department’s undergraduate curriculum committee (2011-2015) and graduate curriculum committee (2015-Present).
11. **Collaborators and Other Affiliations**

**Short biographical sketch**

Daniel has been a lecturer in the Department of Software Engineering at RIT since 9/2010. He previously worked for several companies as a software engineer. Daniel regularly teaches courses a variety of courses in software engineering including Engineering of Secure Software, Web Engineering, and Research Methods.

**Collaborators and Co-Editors with the past 48 Months**

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| --- | --- |
| Blaine, Adam: Undergraduate Student | Filipski, Andrew: Undergraduate Student |
| Le, Wei Iowa State University | Lutz, Mike RIT |
| Jones, Scott: Undergraduate Student | Kaplan, Jayme: Rochester School for the Deaf |
| Klimkowsky, Casey: Undergraduate Student | Malachowsky, Samuel RIT |
| McRae, Shannon: Undergraduate Student | Meneely, Andrew RIT |
| Mirakhorli, Mehdi RIT | Munaiah, Nuthan: RIT |
| Peterson, Jacob: Undergraduate Student | Perez, Cesar: Graduate Student |
| Reichlmayr, Tom RIT | Ruiz, Andres: Undergraduate Student |
| Shihab, Emad Concordia University | Smith, Jared: Undergraduate Student |
| Vallino, James:RIT |  |

**Graduate advisors**

* Frank Mitropoulos, NSU (PhD Advisor)

**MS Thesis/Projuect Supervisor, Co-Chair, or Committee Member**

* Shannon Pattison, Ibrahim Aldosari, Arun Gopinathan, Rebaz Saleh, Rohan Shiroor

**Number of graduate students advised: 5**