Caius Brindescu

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Profile

I am a third year PhD student at Oregon State University. I am studying Computer Science and my main interests include software evolution and version control systems. I am also interested in automated program transformation and program analysis. My main research goal is to make developer's lives easier by developing tools that aid in program comprehension and enable an easier way to work with software changes.

Education

2013 - present **PhD in Computer Science at Oregon State University**

Research Interests: Software evolution and version control systems. I am continuing the PhD work I started at UIUC with Prof. Danny Dig.

2012 - 2013 **PhD in Computer Science at University of Illinois at Urbana-Champaign**

Research Interests: Software evolution and software design. I worked with Prof. Danny Dig.

2007 - 2011 **Bachelor of Science in Computer Engineering at "Politehnica" University, Timişoara**

Subjects studied: Software Engineering, Object Oriented Programming, Operating Systems, Databases.

Work Experience

03/12 - 07/12 Research Engineer at **Politehnica Univesity of Timişoara** and Software Engineer at **Movidius Inc**

Responsibilities: Joint project between the university and Movidius. My task was implementing an Eclipse based IDE to support multi-core debugging of embedded systems.

Summer 2011 Internship at **University of Illinois at Urbana-Champaign** under the supervision of Danny Dig.

Responsibilities: Extending the existing *ReLooper* tool with a way to solve data-races via privatization. It is built as an Eclipse plugin and uses the WALA framework for static analysis.

Summer 2009 & Summer 2010 Internship at **Politehnica University of Timişoara** under the supervision of Radu Marinescu

Responsibilities: Researching a method to use automated refactoring to solve bad smells in code. Determining the right refactoring strategy was done using metric-based algorithms. Looked for applications in the Refuse Parent Bequest design flaw. I also implemented a refactoring engine to be used to improve the design of software products.

Summer 2008 Internship at **Incremental SRL**

Responsibilities: Servicing computers

Teaching Experience

Spring 2015	Teaching Assistant for Software Engineering II (CS 362) at Oregon State University. **Instructor:** Alex Groce **Responsibilities:** Grading and holding office hours.
Winter 2015	Teaching Assistant for Software Engineering I (CS 361) at Oregon State University. **Instructor:** Danny Dig **Responsibilities:** Creating and grading homework. Mentoring teams of four students and helping them make constant progress throughout the term.
Fall 2014	Instructor for Seminar: Grad Intro (CS 507) at Oregon State University **Supervising professor:** Bella Bose **Responsibilities:** Holding a 50-minute lecture each week about topics relating to the graduate program (e.g. doing literature searches, preparing a presentation etc.)
Spring 2013	Teaching Assistant for Software Engineering II (CS 428) at University of Illinois at Urbana-Champaign. **Instructor:** Danny Dig **Responsibilities:** Creating and grading homeworks. Mentoring teams of eight students so they make constant progress on their class project.
Fall 2012	Teaching Assistant for Software Engineering I (CS 427) at University of Illinois at Urbana-Champaign. **Instructor:** Ralph Johnson **Responsibilities:** Creating and grading homeworks. Supervising student teams for the class project.

Publications

ICSE '14 **How Do Centralized and Distributed Version Control Systems Impact Software Changes?**

Caius Brindescu, Mihai Codoban, Sergii Shmarkatiuk, Danny Dig

International Conference on Software Engineering, Hyderabad, India, May 2014
Acceptance rate: 20% (99/499)

Service

I served as an external reviewer for the following conferences: ECOOP '15, ASE '14, ECOOP '13. I was also a student volunteer for OOPSLA '14.

Invited talks

10/2014	*How do Centralized and Distributed Version Control Systems Impact Software Changes?* Talk in CS 561 (Software Engineering) at Oregon State University. Host: Danny Dig
09/2012	*Code Smells* Lecture in CS 427 (Software Engineering I) at University of Illinois at Urbana-Champaign. Host: Ralph Johnson