

Nicholas Nelson

Curriculum Vitae

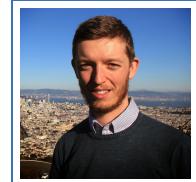
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Education

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| 2015–Current | Doctorate of Philosophy , Computer Science, Oregon State University, Corvallis, Oregon.
GPA: 3.58, Concentration: <i>Software Engineering</i> , Advisor: Anita Sarma |
| 2012–2015 | Bachelor of Science , Computer Science, Oregon State University, Corvallis, Oregon.
GPA: 3.35, Project: <i>Clang AST Analysis & Repair</i> (Sponsor: Garmin AT, Ltd.) |
| | <ul style="list-style-type: none">○ Honor Roll, Winter 2015○ Honor Roll, Spring 2014○ Honor Roll, Fall 2014○ Honor Roll, Winter 2014 |
| 2006–2008 | Associate of Applied Science , Computer Information Systems, Portland Community College, Portland, Oregon.
GPA: 3.34 |
| | <ul style="list-style-type: none">○ President's List, Spring 2008○ Dean's List, Fall 2007○ Dean's List, Winter 2008○ Dean's List, Winter 2007 |
| 2006–2008 | Associate of General Studies , Portland Community College, Portland, Oregon.
GPA: 3.53 |
| 1999–2003 | High School Diploma , South Albany High School, Albany, Oregon.
GPA: 2.93 |

Publications

- [■ C3] Michael Hilton, **Nicholas Nelson**, Timothy Tunnell, Darko Marinov, and Danny Dig. Trade-offs in Continuous Integration: Assurance, Security, and Flexibility. Proceedings of ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE'17), Sep 2017. Acceptance ratio: 24.4% (72/295).
🏆 **ACM SIGSOFT Distinguished Paper Award.**
 - [■ C4] Shane McKee*, **Nicholas Nelson***, Anita Sarma, and Danny Dig. Software Practitioner Perspectives on Merge Conflicts and Resolutions. Proceedings of IEEE International Conference on Software Maintenance and Evolution (ICSME'17), Sep 2017. *Co-first authors. Acceptance ratio: 27.8% (42/151).
🏆 **IEEE TCSE Distinguished Paper Award.**
 - [■ C2] **Nicholas Nelson**, Anita Sarma, and André van der Hoek. Towards an IDE to Support Programming as Problem-Solving. Psychology of Programming Interest Group Workshop (PPIG'17), Jul 2017. Acceptance ratio: 84.0% (21/25).
 - [■ C1] Michael Hilton, **Nicholas Nelson**, Hugh McDonald, Sean McDonald, Ron Metoyer, and Danny Dig. TDDViz: Using Software Changes to Understand Conformance to Test Driven Development. pages 53–65. Proceedings of Agile Processes, in Software Engineering, and

Extreme Programming: 17th International Conference (XP'16), May 2016. Acceptance ratio: 33.3% (14/42).

Professional Experience

- 2015–Current **Graduate Research Assistant (GRA)**, Oregon State University, Corvallis, Oregon.
Advisor: *Anita Sarma*
- 2015–Current **Graduate Teaching Assistant (GTA)**, Oregon State University, Corvallis, Oregon.
Courses: *CS361: Software Engineering I (Winter 2016, Winter 2017, Fall 2017)*
- 2014–2015 **Undergraduate Research Assistant**, Oregon State University, Corvallis, Oregon.
Advisor: *Danny Dig*
- 2013–2014 **Undergraduate Teaching Assistant**, Oregon State University, Corvallis, Oregon.
Courses: *CS160: Computer Science Orientation, CS161: Introduction to Computer Science I, CS162: Introduction to Computer Science II*
- 2013 **Process Engineering Intern**, *Inkjet High-speed Product Solutions (IHPS) Division*, Hewlett Packard Enterprise, Corvallis, Oregon.
Supervisor: *Hank Horn, Press Technical Support Operations Manager*
Project: *IHPS Web Press Consumables Warranty Tracking System*
- 2010–2012 **System Analyst I**, *Information Services Division*, Samaritan Health Services, Corvallis, Oregon.
Supervisor: *Steve Maddox, Applications Support Manager*
- 2008–2010 **Help Desk Analyst**, *Information Services Division*, Samaritan Health Services, Corvallis, Oregon.
Supervisor: *Benjamin Watts, Help Desk Supervisor*
- 2007–2008 **UNIX Server Operations Intern**, *Software and Services Group*, Intel Corporation, Hillsboro, Oregon.
- 2007 **Engineering Computing Support Intern**, *Software and Services Group*, Intel Corporation, Hillsboro, Oregon.

Service

- 2016–Current **Steward**, Coalition of Graduate Employees – Local 6069 (AFT, AFL-CIO), Corvallis, Oregon.
- 2017 **Attendee/Presenter**, 33rd IEEE International Conference on Software Maintenance and Evolution (ICSME), Shanghai, China.
- 2017 **Attendee**, 5th IEEE Working Conference on Software Visualization (VISSOFT), Shanghai, China.
- 2017 **Attendee/Presenter**, 28th Annual Psychology of Programming Interest Group (PPIG) Workshop, Delft, Netherlands.
- 2017 **Video Game Workshop Lead**, 2017 ChickTech Corvallis Annual Summer Kickoff Event, Corvallis, Oregon.
- 2017 **Reviewer**, 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE), Urbana-Champaign, Illinois.
- 2016 **Attendee**, 24th ACM SIGSOFT International Symposium on the Foundations of Software Engineering (FSE), Seattle, Washington.
- 2015 **Reviewer**, 30th IEEE/ACM International Conference on Automated Software Engineering (ASE), Lincoln, Nebraska.

- 2015 **Attendee**, 30th IEEE/ACM International Conference on Automated Software Engineering (ASE), Lincoln, Nebraska.
- 2014 **Attendee**, 3rd ACM SIGPLAN Systems, Programming, Languages and Applications: Software for Humanity (SPLASH) Conference, Portland, Oregon.

Coursework

- Fall 2017 **CS515: Algorithms and Data Structures**, Oregon State University.
Professor: *Amir Nayyeri*
- Winter 2017 **CS569: Empirical Lab Studies of Software Development**, Oregon State University.
Professor: *Anita Sarma*
- Fall 2016 **CS519: Research Methods in HCI: Inclusive Design**, Oregon State University.
Professor: *Margaret Burnett*
ST511: Methods of Data Analysis, Oregon State University.
Professor: *Lisa Madsen*
- Spring 2016 **CS569: Empirical Methods of Software Engineering**, Oregon State University.
Professor: *Anita Sarma*
CS569: Static Analysis and Model Checking for Dynamic Analysis, Oregon State University.
Professor: *Alex Groce*
- Winter 2016 **CS519: Sensemaking in Software Development**, Oregon State University.
Professor: *Anita Sarma*
CS581: Programming Languages II, Oregon State University.
Professor: *Martin Erwig*
- Fall 2015 **CS561: Software Engineering I**, Oregon State University.
Professor: *Danny Dig*
CS589: Programming Languages I, Oregon State University.
Professor: *Eric Walkingshaw*

References

Dr. Anita Sarma, Associate Professor, School of Electrical Engineering & Computer Science, Oregon State University.

Phone: 541-737-5985, Email: anita.sarma@oregonstate.edu, Web: <http://web.engr.oregonstate.edu/~sarmaa/>

Dr. André van der Hoek, Professor & Department Chair, Department of Informatics, University of California, Irvine.

Phone: 949-824-6326, Email: andre@ics.uci.edu, Web: <http://www.ics.uci.edu/~andre/>

Dr. Michael Hilton, Assistant Teaching Professor, Institute for Software Research, Carnegie Mellon University.

Phone: 619-933-3451, Email: mhilton@cmu.edu, Web: <http://www.cs.cmu.edu/~mhilton/>

Dr. Danny Dig, Associate Professor, School of Electrical Engineering & Computer Science, Oregon State University.

Phone: 541-737-8216, Email: digd@eecs.oregonstate.edu, Web: <http://web.engr.oregonstate.edu/~digd/>