

# Emerson A. Azarbakht

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| CONTACT<br>INFORMATION | (604) 505-3993<br>azarbaam@eecs.oregonstate.edu<br><a href="http://github.com/azarbakht">http://github.com/azarbakht</a><br><a href="http://linkedin.com/in/azarbakht">http://linkedin.com/in/azarbakht</a><br><a href="http://eecs.oregonstate.edu/people/azarbakht">http://eecs.oregonstate.edu/people/azarbakht</a>   |   |
|                        | 2205 Lower Mall<br>Vancouver, BC, V6T 1Z4<br>Canada  |   |
| EDUCATION              | <b>Ph.D., Computer Science</b> (2011-present)<br><i>Oregon State University</i> , Corvallis, OR USA<br>Thesis Title: Temporal Analysis and Visualization of Dynamic Collaboration Graphs of Open Source Software Development Community Forking — Advisor: Prof. Carlos Jensen  |   |
|                        | <b>M.S., Computer Science</b> (2009-2011)<br><i>Chalmers University of Technology</i> , Gothenburg Sweden<br>M.S. Thesis: An Evolutionary Algorithm for Computer-Generated Music Ranking   |   |
|                        | <b>B.S., Computer Engineering</b> (2004-2008)<br><i>Azad University of Central Tehran</i> , Tehran Iran  |   |
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| PROFESSIONAL<br>SKILLS | <b>Programming:</b> Java (expert), Python (proficient), C (proficient), MATLAB (expert), C++ (prior experience), Bash (proficient)<br><b>Databases:</b> SQL, Hive, Neo4j Graph Databases, Cypher<br><b>Tools:</b> Git, Hadoop, Gephi, L <sup>A</sup> T <sub>E</sub> X<br><b>Statistical Analysis:</b> R (expert)<br><b>Platforms:</b> Linux  |   |
| RESEARCH<br>EXPERIENCE | <b>Software Engineering &amp; HCI Lab</b><br>3048 EECS Department, Oregon State University<br><i>Research on social dynamics of open source software development</i>   | <b>Research Assistant</b><br>(2012-present)   |
|                        | <b>Computer Vision Lab</b><br>2126 EECS Department, Oregon State University<br><i>Research on activity recognition in videos</i>   | <b>Research Assistant</b><br>(2011-2012)  |
| PERSONAL<br>PROJECTS   | <b>A Machine Learning Approach for Taming Compiler Fuzzers using Ensemble Clustering</b><br>(2014)<br>We developed a comparative approach to tame Compiler Fuzzers. The purpose of the project was to practice machine learning by doing, as well as to experience with different clustering techniques. We improved the state-of-the-art, as our approach found more unique bugs than the state-of-the-art.   |   |
|                        | <b>Augmented Reality Mirror: aMir</b> (2010)<br>We developed a prototype of a augmented mirror called aMir. The purpose of the project was to practice interaction design by doing, as well as to experience the value of prototyping. The project also brought together technical knowledge with more design-oriented thinking of IT.   |   |
|                        | <b>Corvallis Android App</b> (2013)<br>In context of the course Mobile and Cloud Software Development I developed an android app called Corvallis for the city of Corvallis. The purpose of the project was to practice mobile software development, as well as to create a means to keep track of the events in the little town I was living in.  |   |
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| TEACHING<br>EXPERIENCE | <b>User Experience (UX)</b><br>Electrical Engineering & Computer Science Department<br>Oregon State University   | <b>Instructor</b><br><i>Summer 2014, Fall 2014, Winter 2015<br/>Spring 2015, Summer 2015</i>        |
|                        | <b>Data Structures</b><br>Electrical Engineering & Computer Science Department<br>Oregon State University  | <b>Teaching Assistant</b><br><i>Fall 2012, Winter 2012, Fall 2013,<br/>Spring 2013, Spring 2014</i> |
| PUBLICATIONS           | <ul style="list-style-type: none"><li>Azarbakht, A. and C. Jensen, “Drawing the Big Picture: Temporal Visualization of Dynamic Collaboration Graphs of OSS Software Forks,” <i>Proc. 10th Int’l. Conf. Open Source Systems</i>, 2014.</li><li>Azarbakht, A. and C. Jensen, “Temporal Visualization of Dynamic Collaboration Graphs of OSS Software Forks,” <i>Proc. Int’l. Network for Social Network Analysis Sunbelt conf.</i>, 2014.</li><li>Azarbakht, A., “Drawing the Big Picture: Analyzing FLOSS Collaboration with Temporal Social Network Analysis,” <i>Proc. 9th Int’l. Symp. Open Collaboration</i>, 2013.</li></ul> |   |

- Azarbakht, A. and C. Jensen, “Analyzing FOSS Collaboration & Social Dynamics with Temporal Social Networks,” *Proc. 9th Int’l. Conf. Open Source Systems Doct. Cons.*, 2013.
- Davidson, J, R. Naik, A. Mannan, A. Azarbakht, C. Jensen, “Investigating Older Adults’ Experiences with Contributing to Free/Open Source Software,” *Proc. IEEE Symp. Visual Languages and Human-Centric Computing*, 2014.
- Azarbakht, A., “Temporal Visualization of Collaborative Software Development in FOSS Forks,” *Proc. IEEE Symp. Visual Languages and Human-Centric Computing*, 2014.

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GRADUATE  
COURSEWORK

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| • Machine Learning                     | • Computer Vision                             |
| • Artificial Intelligence              | • Algorithms & Data Structures                |
| • Stochastic Optimization              | • Mobile & Cloud Software Development         |
| • Statistical Methods of Data Analysis | • Unix Internals: FreeBSD Operating System    |
| • Theory of Statistics I & II          | • Qualitative & Quantitative Research Methods |
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