

Daniel Ricketts

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Education

PhD student, Computer Science
University of California, San Diego

September 2010 – present
San Diego, CA

- Research into software verification using proof assistants
- Developing tools for verification of cyber-physical systems
- Verified geo-fencing software for a hobbyist quadcopter
- Developed automation for software verification of message passing kernels
- Grade Point Average 3.91 on a 4.0 scale.

Bachelor in Mathematics-Computer Science
Brown University

2005 – 2009
Providence, RI

- Grade Point Average 4.0 on a 4.0 point scale.
- Research into maximizing profit in online recommendation systems.
- Research into sponsored search auctions such as Google Adwords.

Employment History

Software Engineering Intern
Facebook

June 2012-September 2012
Menlo Park, CA

- Worked in C++ and Python to improve user and page search results.
- Used tools from natural language processing and data mining.

Intern
Telefónica Research

June 2011-August 2011
Madrid, Spain

- Telefónica is a telecommunications provider in Spain and Latin America.
- Developed an Android application for labeling a user's important locations based on GPS traces.
- Developed features allowing the user to visualize useful aspects of his/her mobility data.

Software Engineer
INRIA

September 2009 - August 2010
Orsay, France

- INRIA is a French national research institution focusing on computer science and applied math.
- Developed the TLA+ Toolbox, an Eclipse-based IDE for developing formal specifications.
- Worked to incorporate tools for model checking and automated theorem proving into the Toolbox.

Intern
Office of Naval Research

June 2008 - August 2008
San Diego, CA, USA

- Programmed a Java web application for generating a Google Earth animation of ship movements.

Skills

Technologies - Coq, Java, Python, C/C++, TLA+, Haskell, MySQL, Hive

Select Publications

Modular Deductive Verification of Cyber-physical Systems, D. Ricketts, G. Malecha, and S. Lerner, *EMSOFT*, Pittsburgh, PA (2016), <http://cseweb.ucsd.edu/~daricket/papers/emsoft16.pdf>.

Towards Verification of Hybrid Systems in a Foundational Proof Assistant, D. Ricketts, G. Malecha, M. Alvarez, V. Gowda, and S. Lerner, *MEMOCODE*, Austin, TX (2015), <http://cseweb.ucsd.edu/~daricket/papers/memocode2015.pdf>.

Automating Formal Proofs for Reactive Systems, D. Ricketts, V. Robert, D. Jang, Z. Tatlock, and S. Lerner, *PLDI*, Edinburgh, UK (2014), <http://cseweb.ucsd.edu/~daricket/papers/reflex-pldi14.pdf>.

TLA+ Proofs, D. Cousineau, D. Doligez, L. Lamport, S. Merz, D. Ricketts, and H. Vanzetto, *FM*, Paris, France (2012), <http://cseweb.ucsd.edu/~daricket/papers/fm2012.pdf>.