

# Ömer Sinan Ağacan, CV

## Personal info

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I'm a PhD student and research assistant and Indiana University, programming languages group.

Email: [omeragacan@gmail.com](mailto:omeragacan@gmail.com)

Github: <http://github.com/osa1>

Blog: <http://osa1.net/>

StackOverflow: <http://stackoverflow.com/users/691032/sinan>

## Education

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- TOBB University of Economics and Technology, 2009 – 2014
- Indiana University, PhD student, Computer Science, 2015 – present  
Adviser: Ryan Newton

## Programming Skills

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*Languages:* Fluent in Haskell, Lua, C, Java. Working knowledge of Coq, Rust, Python, Java, OCaml, Common Lisp, Prolog.

*Development environment:* Linux, zsh, git, vim (my config: <https://github.com/osa1/rcbackup> )

## Projects

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I'm an avid open source contributor. Some of the projects that I contribute to/maintain/develop:

- *GHCJS (contributor)* – JavaScript backend for GHC
- *K Framework (contributor)* – Executable semantic framework for defining programming languages
- *PureScript (contributor)* – A small strongly, statically typed language that compiles to JavaScript
- *language-lua (owner)* – Lua 5.2 lexer, parser and pretty-printer for Haskell
- *hslua (maintainer and developer)* – Lua interpreter interface for Haskell
- *GHC (contributor)* – A state-of-the-art, open source, compiler and interactive environment for the functional language Haskell

Projects I contributed to in the past:

- *Fay* – compiler from a subset of Haskell to JavaScript
- *LLVM Haskell bindings*
- *SDL2 Haskell bindings*
- *Rust*

## Experience

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### *Indiana University, Programming Languages Group – 2015*

I'm a PhD student and research assistant, working on various programming languages and Haskell related topics.

### *Runtime Verification – 2014*

4 months. I worked as a software engineer, continued working on K Framework.

### *Google Summer of Code for Haskell.org organization – 2014*

3 months. I implemented some of GHC's profiling features(cost-centers, emulated call stacks) for GHCJS, JavaScript backend for GHC.

### *Soostone – 2014*

3 months. I worked as a Software Engineer (Haskell).

### *University of Illinois at Urbana-Champaign, Champaign, IL, United States – 2013*

3.5-month internship at Formal Systems Laboratory. I worked on K Framework, a rewrite-based executable semantic framework for programming languages, type systems and formal analysis tools.

### *Özyeğin University, Istanbul, Turkey – 2013*

3.5-month internship under supervision of Prof. Baris Aktemur: Developed an interpreter for a statically typed multi-staged programming language with subtyping, row polymorphism and type inference. Performed extensive literature reading. Implemented in OCaml.

### *OBSS, Istanbul, Turkey – 2012*

3.5-month internship: I developed a simple static analysis tool for GrayMound, a Java framework based on J2EE and an Eclipse plugin.

### *TUBITAK (The Scientific and Technological Research Council of Turkey), Kocaeli, Turkey – 2010*

4-week internship: Developed the web front-end for PiSi, package manager of Pardus(a GNU/Linux distribution from TUBITAK).