Ömer Sinan Ağacan

## Personal info

I'm mostly self-taught computer science senior student. I'm highly enthusiastic about functional programming and type systems, reactive programming, interpreters and compilers, partial evaluation, multi-stage programming and game programming.

*Email:* omeragacan@gmail.com
*Github:* http://github.com/osa1
*Blog:* http://osa1.net/
*StackOverflow:* http://stackoverflow.com/users/691032/sinan

## Education

TOBB University of Economics and Technology, 2009 – Present (expected graduation in Spring 2014)

## Programming Skills

*Languages:* Fluent in Haskell, Lua, OCaml, JavaScript, Python, Java. Working knowledge of Common Lisp, Scheme, Factor, Prolog, and C++.

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

## Projects

Some projects I'm actively contributing/maintaining/developing:
- *K Framework (contributor)* – Executable semantic framework for defining programming languages
- *language-lua (owner)* – Lua 5.2 lexer, parser and pretty-printer written in Haskell
- *hslua (maintainer and developer)* – Lua 5.1 and 5.2 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
  ( https://github.com/faylang/fay/commits?author=osa1 )
- *LLVM Haskell bindings*
  ( https://github.com/Ralith/llvm/commits?author=osa1 )

I'm also developing experimental interpreters and type checkers (with type inference) and developing 2D games with friends on some occasions (like game jams).

## Experience

*University of Illinois at Urbana-Champaign, Champaign, IL, United States – 2013 (ongoing)*
3.5 month internship at Formal Systems Laboratory. We're developing K Framework, which is a

rewrite-based executable semantic framework for programming languages, type systems and formal analysis tools can be defined.

*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. Currently working on a research paper for the dissemination of results.

*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).