

Buck Shlegeris

Fan of elegant abstractions and functional programming
bshlgrs.github.io

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Employment

- **PayPal** San Francisco
January 2015-current
 - Writing distributed services in Scala, with Akka, Spray, etc
- **App Academy** San Francisco
January 2014-July 2014
 - Taught Ruby on Rails, Ruby, Javascript, Backbone
 - Delivered lectures, wrote learning materials

Personal projects and presentations

- **Ruining the Coding Interview** 2015
github.com/bshlgrs/ruining-the-coding-interview *Presented at Scala By The Bay 2015*
 - A project where I try to automate various types of code optimization which are typically done manually.
 - In particular, I built a Scala program which takes (a subset of) Java source and outputs Ruby code with optimized data structures. This project also involved writing a computer algebra system.
 - Still largely a work in progress.
- **rPeANUt compiler** mostly 2014
github.com/bshlgrs/rpeanut-compiler
 - Compiler from a subset of C including pointer arithmetic to a RISC instruction set
 - Currently partially deployed to the web as ScalaJS.

Education

- **Australian National University** Canberra, Australia
BSc *2012-2014*
 - Undergraduate coursework: Algorithms, operating systems, AI, algorithmic information theory and universal AI, theory of programming languages, computer architecture, linear algebra and ODEs, theory of computation
 - Director and presenter at CompCon, an inaugural Australian undergraduate CS conference; presented on algebraic behaviour of data structures
 - Completed two research projects and a variety of advanced undergraduate courses ahead of my year level.

Skills

- From best to worst: Scala, Ruby, Javascript, Python, Haskell, Java, C...
- Web development, particularly in Rails and React
- Data structures, programming language theory/type theory, machine learning (especially neural nets)