Buck Shlegeris

Fan of elegant abstractions and functional programming
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Employment

- **Triplebyte**   San Francisco
  November 2015-present
    - Interviewing, coding in React and Rails, etc

- **PayPal**   San Francisco
  January 2015-November 2015
    - Writing distributed services in mostly functional 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, such as data structure selection
    - I presented 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
    - My presentation is viewable here: https://www.youtube.com/watch?v=oPFga7eg3Uw

- **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 with 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

- I normally code in Scala, Ruby, Javascript, Python, Haskell, Java, or C/C++

- Web development, particularly in Rails and React

- Data structures, programming language theory/type theory, machine learning (especially neural nets)