CHARLES S. HARRISON

PRESENT ADDRESS

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PERMANENT ADDRESS

9 Garrison Lane Southborough, MA 01772 github.com/csharrison linkedin.com/in/csharrison

EDUCATION

Brown University, Providence, RI - Current Undergraduate, 2015

- Computer Systems Made a database of key-value pairs thread safe in C
- Programming Languages Wrote an interpreter for a subset of Python
- Computational Cognitive Science Machine learning experience in Matlab with Neural Networks, k-means clustering, and Bayesian learning
- Design and Analysis of Algorithms Studied dynamic programming, greedy algorithms, variable length encodings, hashing, and search/optimization problems

SKILLS

Python (Django, Pylons), Javascript, Java, C, Racket, Scala, Matlab, git, HTML, CSS

EXPERIENCE

Software Engineering Intern, Appneta - TraceView (June - Aug. 2013)

- Used Pylons, MySQL, S3, and Cassandra with a reactive in-house frontend library: TBone.js
- Built a data retention system allowing users to selectively save their data indefinitely in S3
- Aggregated data across the app pipeline to show users what in their server's instrumentation needs updating
- Tested client-side code with jQuery test fixtures
- Wrote a web scraper to programmatically back-fill a MySQL table
- Blogged about the experience at www.appneta.com/blog/charlie-intern/

Django Web Developer, hearo.fm (Nov. 2011 - Present)

- Used Django, Javascript, HTML, and CSS in a social networking site for musicians: hearo.fm
- Built backend support for a robust cloud control service to transport songs to and from a cdn
- Wrote a fast and extensible ranking system for music discovery
- Built a backend system in Django allowing clients to manage multiple groups and bands
- Refactored source JS to maintain state seamlessly with AJAX
- Taught and mentored fresh hires in the Summer of 2012

Teaching Assistant, Computer Science: An Integrated Introduction (CS 17/18) (Aug. 2012 - May 2013)

- Taught students core Computer Science topics in personal office hours and labs
- Experienced in Java, Scheme/Racket, Scala, and OCaml
- Assisted the professor during lectures
- \bullet Course websites: cs.brown.edu/courses/cs017 & cs.brown.edu/courses/cs018

Computer Science Student-Teacher, The Rivers School (March - June 2011)

- Taught a group of 7 sophomores Python for my high school senior project
- Students learned how to program 2D games (asteroids, etc.) using the Pygame library
- Final projects can be found on my github