Benjamin White

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EDUCATION

University of California, Berkeley
BA, Computer Science (expected May 2015)

Relevant Division Courses:

- Artificial Intelligence
- Efficient Algorithms and Intractable Problems
- Discrete Mathematics and Probability Theory
- Computer Security
- Data Structures
- Computer Architecture
- Structure and Interpretation of Computer Programs

SKILLS

Languages:

- Python
- Java
- Sh/Bash/Zsh
- C/C++
- Groovy
- JavaScript

Tools:

- Vim
- Git
- SSH
- SCP
- tmux
- iTerm2/urxvt

PROJECTS

Personal:

- **Gtasks: a better Google Tasks Package**, Python
  - Github: benjaminwhite/Gtasks, PyPi: gtasks
  - A complete redesign of the Google Tasks Python Library using REST API.
- **Jarvis: An Automated Personal Assistant**, Python
  - Uses custom English grammar to parse text and map Noun and Verb Phrases to real-world object and actions.
  - Uses APIs for Philips Hue, forcast.io, and others to interact with the world.

Academic:

- **CS 164 Language Interpreter**, JavaScript
  - Created fully-functioning interpeter for the CS164 language by implementing the grammars, parser, desugarer, bytecode compiler, and interpreter.
- **Minimum Spanning Tree**, Java
  - Programmed a weighted undirected graph using a custom resizing hash table and then used Kruskal's Algorithm to find the minimum spanning tree.
- **Matrix Multiply Parallelization**, C
  - Used register blocking, loop unrolling, matrix padding, cache blocking, and shared-memory multi-processing to optimize matrix multiplication.

EXPERIENCE

AppDynamics, San Francisco, CA   Summer 2014
Java Software Engineer Intern in Test

- Wrote applications in Java and Groovy for the Automated Framework.
- Planned and wrote large scale JDK Platform Certification feature.

InterDealer Trading Solutions, Simi Valley, CA   Summer 2011
Intern

- Wrote analytical financial programs in C#.
- Setup and installed servers.

HOBBIES

Movies, Running, Chess, Linux