BarneyPotter

barney.potter.24@gmail.com

Objective

"To find a challenging position as an entry-level software engineer."

Address

3203 SE Woodstock Blvd
Portland, Oregon
97202

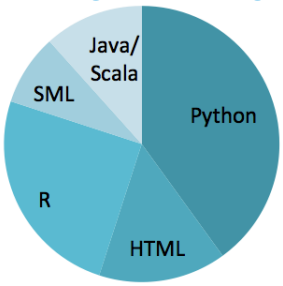
Tel & Skype

208 365-8052
barney.potter.24

Web & Git

barneyipotter.com
barneypotter24

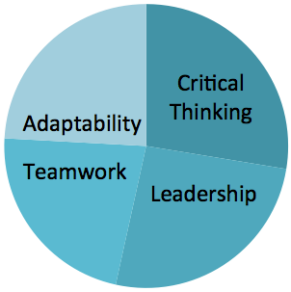
Programming



OS Preference

Windows ★★★★★
Unix ★★★★☆
MacOS ★★★☆☆
Linux ★★☆☆☆

Personal Skills



Experience

08/15 - Now **Senior Thesis Work** — Reed College, Portland, OR
Development of an algorithm to implement the Prize-Collecting Steiner Tree problem in directed hypergraphs. Created a formal definition of directed Steiner Hypertrees, and implemented an exact solution using Python and CPLEX. Became familiar with integer linear programming, graph algorithm design, and combinatorial optimization. Used gene expression data to implement meaningful weighting schema for bioinformatic applications of directed hypergraphs.

01/15 - Now **Laboratory Assistant** — Schaack Lab, Reed College
Design and development of bioinformatic pipelines. Data acquisition and analysis. Molecular biology techniques including DNA/RNA extraction, RNA-Seq, and RNA-FISH.

08/12 - Now **Lead Instructor** — Science Outreach, Reed College
Developed curriculum and taught science in local Title 1 schools. Oversaw communication between program coordinator and classroom teachers.

10/14 - 06/15 **Teaching Assistant** — Reed Leadership Academy, Reed College
Developed curriculum and taught leadership to Reed students. Planned lessons, led leadership retreat, and oversaw consolidation of Reed Leadership Academy.

Education

08/12 - 05/16 **Bachelor's Degree in Mathematics-Biology.** — Reed College, Portland, Oregon
Main subjects: Computer Science, Computational Biology, Genomics, Algorithms and Data Structures, GPU Programming, Computer Graphics, Population Ecology and Evolution.
Title of the Thesis: "Implementation of Prize-Collecting Steiner Trees in Directed Signaling Hypergraphs".

Achievements & Activities

05/2015 **Summer Undergraduate Research Fellowship** — Reed College
Awarded summer research and travel fellowship to study whole genome duplication in *Arabidopsis thaliana*.

05/2015 **Inland Northwest Genomics Research Symposium** — University of Idaho
Presented research on the effects of whole genome duplication on transcriptome size and endopolyploidy in *A. thaliana*.

Interests
Basketball & softball player. Amateur video game developer & member of the Portland Indie Game Squad. In my spare time I love cooking, raising plants, and birding.

Updated March 7th, 2016

Barney Potter