Daniel Penner

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EDUCATION

Stanford University, M.S. Statistics and Data Science   **Expected 2016**
Current GPA: 3.88
Coursework
- Math: Numerical Linear Algebra, Convex Optimization, Discrete Mathematics, Stochastic Processes
- Statistics: Statistical Modeling, Experimental Design, Methods in Supervised Learning, Data Mining
- CS: Programming Abstractions, Computer Systems, Distributed Computing

Princeton University, A.B. Mathematics   **June 2014**
Departmental GPA: 3.78, Overall GPA: 3.68
Thesis: "The Frobenius-Schur Indicator and the Finite Rotation Groups" (Advisor: Nicolas Templier)
Sample Coursework: Theory of Algorithms, Real and Complex Analysis, Abstract Algebra

EXPERIENCE

Research & Development Intern   **6/2015-12/2015**
Shazam (www.shazam.com), Redwood City, CA
- Developed and tested an original extension to the main recognition algorithm
- Designed and ran tests to show that the extension would dramatically reduce computational costs

Executive Committee Member   **2/2014-Present**
Komatsu Summer School (www.komatsu-ss.org), Komatsu, Japan
- Recruit and train US college students to teach liberal arts seminars to Japanese high school students

Operations Intern   **Summer 2013**
Fitwall (www.fitwall.com), San Diego, CA
- Wrote employee handbook in correspondence with CEO, and company handbook for franchising
- Assisted CTO in planning how to best interpret and utilize of collected customer fitness data

Summer Mathematics Researcher   **Summer 2012**
Princeton University, Mathematics Department, Princeton, NJ
- Wrote an expository paper on recent results in percolation theory, assisted by Dr. Michael Damron

Vocalist/Guitarist   **2010-2013**
The Divergence (www.divergencemusic.com), Princeton, NJ
- Led band, composed original music, organized tours, and recorded *No Words EP*

SKILLS AND HOBBIES

Programming Languages: Python (NumPy/SciPy, scikit-learn), C++, C, LaTeX, R
Languages: (native) English; (working proficiency) Japanese, Spanish; (elementary) German, Portuguese
Hobbies: writing, recording, and performing music, travel, foreign languages, cooking, fitness

RELEVANT PROJECTS

Japanese-to-English Machine Translation with RNNs, Stanford, CA   **Spring 2015**
- Successfully trained RNN Encoder-Decoder to translate Japanese phrases from a toy corpus

Machine learning model to predict movie revenues, Princeton, NJ   **Spring 2014**
- Adapted regression and classification techniques in an original time-sensitive testing scheme