Matthew Levin

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Experience

Software Engineer September 2018 – Present
Google *Mountain View, CA*
- Modeling and development of custom audience solutions for unified cross-platform (YouTube, Google Search, Google Display Network, etc.) audience targeting

Undergraduate Researcher June 2017 – May 2018
Human Computer Interaction Lab *Rochester, NY*
- Apply machine learning techniques to perform automated lie detection from audio and video
- Use hidden Markov models and clustering algorithms to recognize patterns in human conversation

Information Technology Consultant June 2016 – May 2018
Simon School of Business *Rochester, NY*
- Assist graduate students and professors in troubleshooting technical problems and configuring devices
- Automated printer configuration process for students by developing a one-click application in AppleScript

Teaching Assistant August 2017 – December 2017
Computer Science Department *Rochester, NY*
- Mentor project teams, grade assignments, and hold office hours for Human Computer Interaction course

Education

University of Rochester, *May 2018*
Bachelor of Science in Computer Science
Overall GPA: **3.81** (Out of 4.00)

Activities: Golden Key International Honor Society, Human Computer Interaction Lab (ROC-HCI), Computer Science Undergraduate Council (CSUG), Intramural Ultimate Frisbee and Soccer
Courses: Artificial Intelligence, Algorithms, Linear Algebra with Differential Equations, Probability and Statistics

Skills and Interests

Programming Languages: Python, C++, Java, JavaScript, Bash, HTML/CSS, SQL, OCaml
Software and Tools: NumPy, scikit-learn, Pandas, Git, Node.js, LaTeX, Postman, jQuery, Ajax
Research Interests: Machine Learning, Artificial Intelligence, Big Data, Pattern Recognition

Projects and Publications

Playlist Analyzer *(Winter 2018)*
- Analyzes Spotify users' top 100 tracks to create a shared playlist suited for a group activity, such as studying
- Uses machine learning to generate a playlist of songs tailored to an individual user's music preferences

Concurrent Shortest Paths *(Fall 2017)*
- Finds shortest paths in a graph from a source node using a parallelized delta-stepping algorithm in Java
- Achieved nearly three-hundred percent speedup compared to the sequential version of the algorithm

UR Bus *(Spring 2017)*
- Website and iOS app to track university shuttles in real time and find optimal routes using a graph algorithm
- Developed a custom API with Node.js utilizing Google Maps API and Transloc API for shuttle information

T. Sen, K. Hasan, M. Tran, **M. Levin**, Y. Yang, and M. E. Hoque, Say CHEESE: Common Human Emotional Expression Set Encoder and its Application to Analyze Deceptive Communication, *IEEE International Conference on Automatic Face and Gesture Recognition*, Xi'an, China, May 2018.

Other Activities: Eagle Scout (Boy Scouts of America), volunteer tutor, summer music instructor, avid guitarist and bassist