

# Matt Levin

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## Education

### University of Rochester

Hajim School of Engineering and Applied Sciences

*Bachelor of Science in Computer Science*

Current GPA: 3.75 / 4.00

**May 2018**

*Rochester, NY*

*Notable Courses:* Artificial Intelligence, Design and Analysis of Efficient Algorithms, Computer Organization, Web Programming, Human Computer Interaction, Linear Algebra

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## Skills and Interests

*Programming Languages:* Java, Python, C, C++, JavaScript, HTML, CSS, SQL, and Swift

*Software:* NumPy, Node.js, Git, Postman, Apache, jQuery, Ajax, Xcode, and Adobe Photoshop

*Interests:* Machine Learning, Artificial Intelligence, Guitar, Bass, Soccer, and Ultimate Frisbee

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## Projects and Publications

**Automated Reasoning:** Finds or proves solutions to systems of propositional logic

**URBus:** Redesigned website and app for university bus system using graph algorithms and APIs

**Bayesian Inference:** Compares approximation algorithms on probabilistic graphical models

**Cache Simulator:** Evaluates the performance of different cache configurations

T. Sen, K. Hasan, M. Tran, **M. Levin**, Y. Yang, and M. E. Hoque, Say CHEESE: the Common Habitual Expression Encoder for Smile Examination and its Application to Analyze Deceptive Communication, *Submitted*.

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## Professional Experience

### Undergraduate Researcher

**June 2017 – Present**

*Human Computer Interaction Lab*

*Rochester, NY*

- Apply machine learning techniques to automate lie detection from audio and video
- Use clustering algorithms and hidden Markov models to model human conversation

### Teaching Assistant

**August 2017 – Present**

*University of Rochester*

*Rochester, NY*

- Mentor project teams in designing and building products to meet a consumer need
- Grade assignments and hold weekly office hours for Human Computer Interaction course

### Information Technology Consultant

**June 2016 – Present**

*Simon School of Business*

*Rochester, NY*

- Assist students and professors in troubleshooting problems and configuring devices
- Train new employees on procedures and regulations of the position

### Music Instructor

**June 2012 – August 2015**

*Music in Chappaqua*

*Chappaqua, NY*

- Taught one-on-one and group lessons on bass, guitar, drums, and performance

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## Volunteer Experience

### Tutor

**January 2017 – Present**

*Computer Science Undergraduate Council*

*Rochester, NY*

- Hold weekly tutoring sessions for several computer science courses

### Eagle Scout and Patrol Leader

**June 2007 – August 2015**

*Boy Scouts of America*

*Scarsdale, NY*

- Planned and executed construction of a wooden fence for school's sustainability program