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# Matthew Tang

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## EDUCATION

**University of Illinois Urbana-Champaign** - Bachelor in Statistics and Computer Science,  
September 2018 - May 2022    GPA: 3.72

## EXPERIENCE

**National Science Foundation Research Experience for Undergraduates at Indiana University - Purdue University Indianapolis June 2019-August 2019**

- Worked with mentor Dr. Xiao Luo on extracting key phrases from medical texts using BERT, an attention-based deep learning model for natural language processing
- Modified the base classification model in order to find the words important to the overall evaluation of the sentence by adding a layer
- Submitted paper to IEEE International Conference on Bioinformatics and Biomedicine

**Intern at Loyola University Chicago June 2017-August 2017**

- Created log2 median centered intensity graphs of gene expression using Excel to observe the relationship between gene expression and overall survival of patients

## PROJECTS

**Moodsic Android App (Lodgic Prize Winner at Pyghack 2019)**

- Created an Android Application which takes a picture of a person's face, sends it to Microsoft's Face API to detect their emotion, and plays music based on that emotion

**SMapS Android App (Lyft - Best Transportation Hack at Mhacks 2019)**

- App that gets directions without wifi or data using sms messages
- Uses Twilio to send the search, which calls a google cloud function and uses the google maps API to get the directions. Then, it sends the directions back to the phone and displays them.

**Data Visualization of International Student Demographics Over Time at UIUC**

- Cleaned the international student dataset from 1990 to 2018 with Python and used d3.js to create a visualization

## COURSEWORK

Data Structures, Data Visualization/Data Science, Algorithms and Models of Computation, Numerical Methods, Database Systems, Computer Architecture, Discrete Structures, Statistics and Probability II, Statistical Analysis, Statistical Modeling in R, Applied Linear Algebra

## SKILLS

Proficient in C++, Python, Tensorflow, Android Studio, Java, C#, R, Javascript, and HTML