

# Ankit Mathur

4046 Cranford Circle, San Jose, CA 95124 · (408)-679-2702

ankitmathur@berkeley.edu · linkedin.com/in/ankmathur96 · github.com/ankmathur96

## EDUCATION

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UC BERKELEY - B.S., ELECTRICAL ENGINEERING AND COMPUTER SCIENCE - 2018

Undergraduate TA for EE16A (Designing Information Systems and Devices)

**EECS coursework:** Probability and Random Processes, Artificial Intelligence, Databases, Algorithms, Computer Architecture, Data Structures, Discrete Mathematics/Probability Theory, Linear Algebra/Differential Equations, Designing Information Devices and Systems, Structure/Interpretation of Computer Programs

BELLARMINE COLLEGE PREPARATORY

GPA: 4.62, 2400 on SAT, National Merit Scholarship Recipient, National AP Scholar, Presidential Scholars Program Nominee

## EXPERIENCE

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SOFTWARE ENGINEERING INTERN, FACEBOOK

SUMMER 2016

- Developed a new product feature from scratch on the Android app for Facebook within the post composer
- Worked with Java/Android at a production level, created notable improvement in core posting metrics

SOFTWARE ENGINEERING INTERN, CITRIX

SUMMER 2015

- Contributed to a new machine-learning based product that automatically detects irregular HTTP traffic patterns and uses the cloud to learn worldwide attack patterns
- Gained expertise in Python/Django, Bash/Unix, and experience developing algorithms for large-scale data analysis

RESEARCH INTERN, STANFORD COMPUTER SCIENCE

2013-2014

Developed a system that generates personalized memory tests from users' email archives to detect early stages of cognitive disorders

- Developed complex sentence parsing algorithms using regular expressions and NLP algorithms
- Worked on algorithms that learned how significant events in users lives are from email datasets

## PROJECTS (SEE GITHUB.COM/ANKMATHUR96 FOR COMPLETE LIST)

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- Using Markov Chains to Model Traffic and Rank Importance of Infrastructure - developed a probability model for a road network and simulated traffic by iterating over a Markov chain (won first in the EE126 contest)
- Election Sentiment - used a supervised learning model to learn sentiment from tweets and deployed it on AWS to track sentiment for tweets about US election candidates and live update on a webapp
- Automatic Sentence Generator - using alignment-based NLP to learn a language model from a given text

## PUBLICATIONS

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**Personalized Memory Testing for Names using Email Archives** - Hangal, Rosen, Mathur, Lam

- Discusses results from testing the system, proving its effectiveness (link to paper on personal website)
- Presented at BrainKDD workshop at KDD 2014 in New York; Submitted to CHI 15