Ankit Mathur

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SUMMARY

- Understanding of computer science and problem solving techniques using computer algorithms from academic research done at Stanford
- Academic prowess with a consistently challenging curriculum throughout high school and first year at Berkeley
- Proven leadership skills with multiple significant leadership positions within extracurricular and school activities.

EDUCATION

University of California, Berkeley
Electrical Engineering and Computer Science— May 2018 (expected)
Current technical coursework: Structure and Interpretation of Computer Programs, Multivariable Calculus, Physics (Electricity and Magnetism)
Expected Spring 2015: Data Structures and Advanced Programming, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations
Bellarmine College Preparatory
GPA: 4.62 (4.0 scale), 2400 on SAT, National Merit Scholarship Recipient, Presidential Scholars Program Nominee, National AP Scholar

EXPERIENCE

Research Intern, Stanford Computer Science Department (2012-present)
Developed a system written in Java that generates personalized memory tests from users' email archives to detect early stages of cognitive disorders like Alzheimer's and dementia

- Developed complex sentence parsing algorithms using regular expressions and natural language processing algorithms
- Worked on algorithms to evaluate and rank significant events in users' lives using machine learning style algorithms on email archives
- Designed a system to efficiently implement these large-scale analysis algorithms on large email datasets.
- Used HTML/CSS to create a secure and smooth web interface to help users sign up to participate in the study and then actually take a personalized memory test
- Wrote backend code to use Google and Yahoo authorization portals to access email
- Used R to perform data analysis on logged results for the research publication for the project

PUBLICATIONS

Personalized Memory Testing for Names using Email Archives
Hangal, Rosen, Mathur, Lam — 2014

- Focused on the results from testing the system described in the experience section and evaluating how effectively the system was able to test for memory
- Full paper at http://goo.gl/VurqNp
- Presented at BrainKDD workshop at KDD 2014 in New York; Submitted to CHI '15

Effect Of Phonemic Cueing On Recall Of Personally Relevant Names Derived From Email
Rosen, Mathur, Lam, Hangal — 2014
Submitted to the International Neuropsychological Society conference

SKILLS

- Mastery in Python, Java, R, Objective C, HTML/CSS
- Experience implementing large-scale CS projects
- Leadership experience developed through co-curricular involvement
- Experienced public speaker and presenter