

Ankit Mathur

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SUMMARY

- Experience designing large, complex systems using Java and Python across multiple projects
- 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

B.S., Electrical Engineering and Computer Science— 2018

Completed technical coursework: Structure and Interpretation of Computer Programs, Multivariable Calculus, Physics (Electricity and Magnetism)

Current coursework: Data Structures, Discrete Mathematics and Probability Theory, Linear Algebra and Differential Equations, Designing Information Devices and Systems, Intro to Unix

Bellarmino College Preparatory

GPA: 4.62 (4.0 scale), 2400 on SAT, National Merit Scholarship Recipient, Presidential Scholars Program Nominee, National AP Scholar

EXPERIENCE

Lab Assistant for CS61A (Introductory CS) (2015-present)

Research Intern, Stanford Computer Science Department (2013-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
- Used R to perform data analysis on logged results for the research publication for the project

PROJECTS

Built Philanthropic Alarm Clock app in Android, Automatic Text Generation with Using alignment-based NLP, Scheme Interpreter, Twitter trend analyzer using NLP

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

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