



NEERAJ SAMTANI

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EDUCATION

University of California, Los Angeles

Expected June '22

B.S. Computer Science | GPA: 3.77

WORK EXPERIENCE

Automated Reasoning Group | AI Researcher June '20 - Present

- Researching Sentential Decision Diagrams (SDDs) which learn from a combination of data and symbolic knowledge. SDDs are used to explain and verify AI Systems.

Honey | SWE Intern (Deferred due to COVID-19) Summer 2020

At HUM | SWE Intern

July '19 - September '19

- Optimized the asset import workflow into **Unreal Engine 4** with **C++** and **Python**, which reduced import time by 8000%.
- Automated virtual house furnishing in Unreal Engine 4 based on room size and user preferences which enabled artists to quickly prototype designs and helped the startup scale its software.

ESRI | SWE Intern

July '17 - August '17

- Developed plugins in **C++** and **Bash** to provide support for **WEBP** and **PDF** formats in **ArcGIS** using the open-source library **GDAL**. Wrote user documentation for these plugins.
- Collaborated with a team of interns to write a **Python** script which automated testing and reduced development time by comparing image statistics and verifying support for various file formats.

TOP PROJECTS

DrugDecider | Engineering Manager

- Led a team of 5 software engineers to develop DrugDecider, a mental health website that uses machine learning to predict a patient's treatment response to anti-psychotics (partnered with the UCLA School of Medicine)
- Tools: React, Node, Express, MongoDB, R, and AWS

Books For A Cause | Independent Project

- Created a website which enables students to trade used textbooks.
- Spearheaded a marketing campaign which led to 450+ users signing up within the first two months.
- Trained four students to maintain and update the website.
- Tools: HTML, CSS, JavaScript, PHP, and MySQL

RELEVANT COURSEWORK

Algorithms and Complexity, Operating Systems, Programming Languages, Artificial Intelligence, Computer Graphics, Multivariable Calculus, Discrete Math, Linear Algebra

HONORS AND AWARDS

Upsilon Pi Epsilon Honor Society, Member
UCLA Chapter, Inducted Spring 2020

Dean's Honors List

UCLA, Spring 2019 and Fall 2019

Valedictorian

GEMS Modern Academy, 2018

Runner-Up, Mobile App Competition

GEMS-Keita Mobile App Making
Competition, 2018

Euclid Mathematics Contest Medal

School Topper and Top 20% Worldwide,
Center for Education in Mathematics and
Computing, 2018

K.S. Varkey Merit Scholarship

GEMS Education, 2016 - 2018

LANGUAGES

Python, C, C++, JavaScript, Bash, Lisp

FRAMEWORKS +

SOFTWARE

Linux/Unix, Git, React, Node, Express,
MongoDB, WebGL, Adobe Creative
Cloud

PUBLICATIONS

How Would Quantum Computing Impact
the Security of Bitcoin by Enhancing Our
Ability to Solve the Elliptic Curve Discrete
Logarithm Problem? (August 2018).

Top Ten download list in the Computing
Methodology eJournal and CompSciRN:
Cyber Attack (Topic).

Link: <https://ssrn.com/abstract=3232101>