



NEERAJ SAMTANI

Computer Science and Engineering Student at UCLA
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EDUCATION

University of California, Los Angeles Expected June '22
B.S. Computer Science and Engineering | GPA: 3.81

WORK EXPERIENCE

At HUM | SWE Intern July '19 - September '19

- Optimized the asset import workflow from 3ds Max to Unreal Engine 4 with C++ and Python which reduced production time.
- Automated virtual house furnishing in Unreal Engine 4 based on room size and preferences. The Python script enabled artists to quickly prototype various interior design options.
- Prevented memory management issues that arose while using the DataSmith plugin.

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 to write a Python automation script which significantly reduced development time by comparing image statistics and checking for support for various file formats.

TOP PROJECTS

DrugDecider | Engineering Manager

- Developed DrugDecider, a mental health app that uses machine learning to predict a patient's treatment response to anti-psychotics (partnered with UCLA School of Medicine)
- Lead a team of 5 software engineers and made key decisions about our tech stack, API spec, website design, and more.
- Tools: MongoDB, Express, React, Node, AWS

Books For A Cause | Independent Project

- Created a website which enables students of GEMS Modern Academy 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

Robot Doomsday | Team Project

- A WebGL game where players must survive a robot invasion.
- Tools: Javascript, WebGL

RELEVANT COURSEWORK

Algorithms and Complexity
Programming Languages
Artificial Intelligence
Operating Systems
Discrete Math
Linear Algebra

AWARDS

Dean's Honors List
UCLA, Spring 2019 and Fall 2019

Valedictorian
GEMS Modern Academy, 2018

Nutritiva - Mobile app
Second Place at GEMS-Keita Mobile App Making Competition, 2018

Certificate of Distinction & Contest Medal
School Topper and Top 20% Worldwide, Euclid Mathematics Contest, 2018

K.S. Varkey Merit Scholarship
GEMS Education, 2016 - 2018

LANGUAGES

Python, C++, Bash, JavaScript, Lisp

FRAMEWORKS + SOFTWARE

Linux/Unix, Git, Emacs, React.js, Adobe Photoshop / Premiere Pro / After Effects

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>