



NEERAJ SAMTANI

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Product Manager at UCLA DevX

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EDUCATION

University of California, Los Angeles

Expected June '22

B.S. Computer Science | 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.
- Fixed 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)
- Led 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, 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

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, C++, JavaScript, Bash, Lisp

FRAMEWORKS + SOFTWARE

Linux/Unix, Git, React.js, WebGL,
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>