



NEERAJ SAMTANI

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EDUCATION

University of California, Los Angeles
B.S. Computer Science and Engineering
GPA: 3.80

Expected June '22

WORK EXPERIENCE

At HUM - SWE Intern

July '19 - September '19

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

ESRI - SWE Intern

July '17 - August '17

- Developed plugins to provide support for WEBP and PDF formats in **ArcGIS** using the **open-source library GDAL**. Wrote user documentation outlining the installation of these plugins.
- Collaborated with a team to write an automation script which significantly reduced development time by comparing image statistics and checking for support for various file formats.
- Languages: C++, Python

TOP PROJECTS

Books For A Cause

- 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.
- Languages: HTML, CSS, JavaScript, PHP, and MySQL
- Github: www.github.com/neerajsamtani/booksforacause

Parallax

- Wrote a script to generate stereoscopic 3D images for a "Creative Labs" photoshoot.
- Languages: Python, Imageio Library
- Github: www.github.com/neerajsamtani/gif_creator

RELEVANT CLASSES

Data Structures and OOP (C/C++)
Computer Organization
Algorithms and Complexity
Single and Multi-variable Calculus
Discrete Math
Linear Algebra

AWARDS

Nutritiva - Mobile app

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

Valedictorian

GEMS Modern Academy, 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

C/C++
Python
Java
HTML/CSS
JavaScript

FRAMEWORKS + SOFTWARE

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

SKILLS

Filmmaker, Visual Effects Artist,
Leader, Team Player, Public speaker.
Check out my YouTube channel:
www.youtube.com/neerajsamtani