

# NEERAJ SAMTANI

neerajsamtani.me | neeraj.j.samtani@gmail.com | linkedin.com/in/neerajsamtani |  
github.com/neerajsamtani

## Profile

A passionate student with internship and leadership experience who enjoys programming in C++ and Python. I'm interested in making products which solve real-world problems with Computer Science.

## Education

**Computer Science and Engineering (B.S.) | 2022**  
University of California, Los Angeles - GPA 3.80

**International Baccalaureate Diploma | 2018**  
GEMS Modern Academy, Dubai - Valedictorian

## Work Experience

**Software Engineer Intern 07/2019 – 09/2019**  
*at HUM, San Jose, United States*

- 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 and Tools: C++, Python, Unreal Engine 4

**Software Engineer Intern 07/2017 – 08/2017**  
*Esri, Sharjah, U.A.E.*

- 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

## Featured Projects

### Books For A Cause | Website

- 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 the website and update it with new features.
- Languages: HTML, CSS, JavaScript, PHP, and MySQL | [github.com/neerajsamtani/booksforacause](https://github.com/neerajsamtani/booksforacause)

### 3D Image Generator | Script

- Wrote a script to generate stereoscopic 3D images for a "Creative Labs" photoshoot.
- Languages: Python, Imageio Library | [github.com/neerajsamtani/gif\\_creator](https://github.com/neerajsamtani/gif_creator)

### Zombie Dash | Video game

- Developed a game which follows a zombie hunter trying to kill zombies and save citizens.
- Languages: C++ | [github.com/neerajsamtani/ZombieDash](https://github.com/neerajsamtani/ZombieDash)

## Skills

C++

Python

JavaScript

Web Development

Git

Leadership

Teamwork

## Awards

Valedictorian, GEMS Modern Academy  
Certificate of Distinction & Contest Medal, Euclid Mathematics Contest  
Runner up, GEMS-Keita Mobile App Making Competition  
K.S. Varkey Merit Scholarship