NEERAJ SAMTANI

PM and Software Engineer at UCLA DevX
Vice President of FPS Productions
Computer Science at UCLA

+1 (213) 476 6063
www.neerajsamtani.me
neeraj.j.samtani@gmail.com
www.github.com/neerajsamtani
www.linkedin.com/in/neerajsamtani

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 Structured Bayesian Networks (SBNs), which were recently proposed for representing and learning distributions over highly complex spaces. SBNs can accommodate background knowledge while learning from data.

Honey | SWE Intern (Deferred)
Summer '20

- Deferred due to COVID-19

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. This 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 an automated testing script in **Python** which compared image statistics and verified support for various file formats.

TOP PROJECTS

DrugDecider | Engineering Manager

- Led a team of 5 software engineers to develop DrugDecider, a health app 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