Neeraj Samtani

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A curious and hardworking student with internship experience looking to solve real-world problems with Computer Science.

Work experience

Backend Developer Intern
11/2018 – present

CatalistX, California
- Worked on the server-side of CatalistX.com , a user centric platform created to solve the problem of disconnected innovation ecosystems.
- Languages: Python (Django)

Software Developer Intern
07/2017 – 08/2017

Esri, Sharjah, United Arab Emirates
- Developed plugins to provide support for WEBP and PDF file formats in ArcGIS (ESRI's flagship software) using open source library GDAL. Wrote user documentation for the installation process of these plugins.
- Collaborated with a team of interns to write and optimize a script which compares image statistics and checks for read and write support for various file formats.
- Languages: C++, Python

Projects

Stereoscopic 3D Image Generator
- Wrote a script to generate stereoscopic 3D images using Python and the imageio library.
- Github: https://github.com/neerajsamtani/gif_creator | Languages: Python

Book Trading Website
- Created www.swapthisbook.com which gained 450+ users within the first two months of launch.
- Github: https://github.com/neerajsamtani/swapthisbook | Languages: HTML, CSS, JavaScript, PHP, and MySQL

Publications

Quantum Computing, Bitcoin, and ECDLP

Cybersecurity, Privacy, & Networks eJournal | Applied Computing eJournal (10/2018)
How Would Quantum Computing Impact the Security of Bitcoin by Enhancing Our Ability to Solve the Elliptic Curve Discrete Logarithm Problem? - http://dx.doi.org/10.2139/ssrn.3232101

Awards

Valedictorian
07/2018

GEMS Modern Academy
- Topped GEMS Modern Academy with a score of 42 in the IB Diploma Program

Certificate of Distinction & Contest Medal, Euclid Mathematics Contest
05/2018

The CENTRE for EDUCATION in MATHEMATICS and COMPUTING
- Placed in the Top 20% of 19,628 contestants and received the highest score in GEMS Modern Academy.

Subject Prize for Mathematics HL and English SL
06/2017

GEMS Modern Academy
- Achieved maximum marks in Mathematics HL and English SL.

Runner up, GEMS-Keita Mobile App Making Competition
05/2017

Keita Catering and GEMS Education
- Designed a mobile application to supplement Keita's catering services and facilitate a healthier school environment.

K.S. Varkey Merit Scholarship
05/2016

GEMS Education
- Scored 95% in the I.C.S.E. Board Examinations and received a 50% scholarship on tuition.

Skills

| Java | C++ | Python | Django | Web Development | Adobe Creative Cloud | Leadership | Teamwork |

Education

Computer Science and Engineering (B.S.) - 2022 Expected

University of California, Los Angeles
- Member of the Association of Computing Machinery and the Film and Photography Society

International Baccalaureate Diploma
2018

GEMS Modern Academy, Dubai, United Arab Emirates
- Graduated as Valedictorian.
- Computer Science, Mathematics, Physics, Economics, English, Spanish