sud03r.github.com

☎: +1-805-886-2271 **☎**: neeraj@cs.ucsb.edu

ि: 6520 El Colegio Rd, Apt 2229 Goleta, CA 93117

Computer enthusiast with over three years of experience in building large scale software systems.

EDUCATION |

• University of California, Santa Barbara

(Fall 2015 - current)

Doctor of Philosophy, Computer Science Algorithms and Complexity, GPA: 3.97/4

Advisor: Subhash Suri

• University of Waterloo, Canada

(Fall 2013 - 2015)

Master of Mathematics, Computer Science Algorithms and Complexity, GPA: 93.2%

Thesis: Width properties of control-flow graphs and applications.

• Indian Institute of Technology, Varanasi, India

(2006 - 2010)

Bachelors in Computer Science

CGPA: 8.69/10

Tech Arsenal

- Programming languages C++(Proficient), C (Good), Perl (Good), shell-scripts (Good), php
- Operating systems/Tools Linux (Ubuntu), GDB (Proficient), version control (git, svn, cvs), awk, sed, etc

Work Experience

• Graduate Technical Intern, Intel Corporation, Santa Clara, CA Geometric Algoritms for Layout Processing.

(Summers 2016)

• Google Summer of Code, Open Graph Drawing Framework
Implemented algorithms for computing treewidth of undirected graphs.

(Summers 2014)

Implemented algorithms for computing treewidth of undirected graphs
 Senior Software Developer, Mentor Graphics, India

(2010 - Aug 2013)

Algorithmic solutions for Mentor's next generation emulation platform.

• Google Summer of Code, ScummVM

(Summers 2010)

Wrote a game engine for testing ScummVM subsystems.

Publications =

Counting Convex k-gons in an Arrangement of Line Segments.
 Martin Fink, Neeraj Kumar and Subhash Suri 28th Canadian Conference on Computational Geometry (CCCG'16), Vancouver, Canada.

SiPTA: Signal Processing for Trace-based Anomaly Detection.
 MM Zeinali, MA Salem, N Kumar G Cutulenco and S Fischmeister, EMSOFT '14.

SELECT GRADUATE COURSEWORK

- Computational Geometry
- Graph-theoretic Algorithms
- Foundations of Data Science
- Advanced Data Mining and Machine Learning

Other Projects

- For an advanced operating system course, we performed a holistic analysis of shared library performance on NUMA architectures.
- Practical algorithms for analyzing worst-case execution time of programs.

Miscellaneous =

- Scholarships and Awards
 - Outstanding Teaching Assistant (UCSB),
 - Graduate Entrance Scholarship (UWaterloo),
 - CBSE Merit Scholarship (India)
- **Teaching assistant** for CS341 (Algorithms, UWaterloo), CS 130A, 130B (Algorithms and Data Structures, UCSB).
- Languages English (fluent), Hindi(fluent)