Neeraj Kumar
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 : 3.95/4
  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 (Summers 2016)
  Geometric Algoritms for Layout Processing.

- **Google Summer of Code, Open Graph Drawing Framework** (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.

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)