

Shailpik Roy

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EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN URBANA, IL, USA

B.S. in Computer Science
August 2014 - May 2017 (Expected)
James Scholar & Dean's List
GPA: 3.91/4.0
Technical GPA: 4.0/4.0

SOUTH POINT HIGH SCHOOL KOLKATA, INDIA

August 2000 - May 2014
SAT: 2210/2400
SAT Subject Tests: Math II 800/800
Physics 800/800 Chemistry 800/800

COURSEWORK

Systems Programming
(CS 241)
Data Structures
(CS 225)
Computer Architecture
(CS 233)
Database Systems
(CS 411)
Discrete Structures
(CS 173)
Intro to CS and Honors
(CS 125 and 196)
Linear Algebra
(MATH 415)
Multivariable Calculus
(MATH 241)
Probability and Statistics
(MATH 463)

SKILLS

Proficient:
C • C++ • Java • Python

Familiar:
MySQL • HTML • CSS
JavaScript • Android Dev

EXPERIENCE & PROJECTS

RESEARCH WORK | STUDENT RESEARCHER

August 2013 - May 2014

- Research work under Prof. Kuntal Ghosh at Indian Statistical Institute, Kolkata on identification of micro-calcifications in mammography images
- Developed a unique algorithm involving contrasting illusions and proposed a theory for explaining the 2 illusions simultaneously
- Implemented this theory for enhancing micro-calcifications, edge detection methods, and a Gaussian filter for identifying the same in mammograms

FREED | BACKEND DEVELOPER

February 2015

- Developed an Android Application at HackIllinois for crowdsourcing data to inform people about available parking spots
- Extensively integrated Google Maps and Facebook APIs into the application

VIRTUAL LENS | ANDROID APP DEVELOPER

August 2014 - December 2014

- Developed an Android camera application helping people with farsightedness by emulating a natural window and mimicking a lens
- Utilised facial detection and object-camera distance Algorithms for selectively zooming in objects

AWARDS & ACHIEVEMENTS

DEAN'S LIST | ACADEMIC ACHIEVEMENT

Fall 2014 & Spring 2015

- Awarded to the top 10% students in the College of Engineering
- James Scholar and on the Dean's List for Fall 2014 and Spring 2015

INTEL ISEF FAIR 2014 | GOLD MEDAL WINNER & FINALIST

May 2014

- Won Gold Medal at Intel IRIS National Fair 2013 & represented India at Intel ISEF 2014 in Los Angeles
- Currently involved in publishing a paper on the same research involving microcalcification identification

NTSE SCHOLAR | NATIONAL MERIT SCHOLAR

October 2010 - May 2014

- Selected as National Scholar pan-India by NCERT program of Govt. of India from 2010-2014.
- Awarded the NTSE Scholarship for outstanding performance in Math, Physics, Chemistry