Shailpik Roy

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EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN
Urbana, IL, USA

Dean's List and James Scholar
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)
Probability and Statistics
(MATH 463)

SKILLS

Proficient:
C • C++ • Java

Familiar:
MySQL • HTML • CSS
JavaScript • Android Dev
Python • Django • PHP

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

NOTELET | Database Application Developer
November 2015

- Developed a database application that allows users to update and crowdsource the best notes regarding a particular topic
- Application includes features like upvoting the best notes and adding tags to uploaded notes; integrated MySQL , PHP and Django to develop the application

AWARDS & ACHIEVEMENTS

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

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 for outstanding performance in Math, Physics, Chemistry