

Samarth Mishra

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WORK EXPERIENCE

Summer Intern

International Institute of Information Technology, Bangalore

Bengaluru, Karnataka (May 2016 – June 2016)

- Worked in the field of Computational Geometry and Graphics.
- Visualised isosurfaces of a scalar field using well-known Marching Cube/Marching Tetrahedron algorithm.
- Applied Marching Cube and Marching Tetrahedron algorithm in Volumetric Datasets (.raw files) to extract the isosurfaces.
- Understood the Data Structure called 'Contour Tree' for the analysis of a Scalar Field.
- Understood the Algorithms of Computing Contour Tree presented in the research paper - 'Parallel Computation of the Topology of Level Sets' by V. Pascucci and K. Cole-McLaughlin.

EDUCATION

National Institute of Technology Karnataka, Surathkal

- Bachelor of Technology (B.Tech.) in Computer Engineering 2014-present
CGPA: 8.55 / 10

Shaheed Rajpal DAV Public School, Dayanand Vihar, Delhi - 110092

- High School (CBSE) 2014
97.2%

Seth Anandram Jaipuria School, Ghaziabad, Uttar Pradesh - 201012

- Secondary School (CBSE) 2012
CGPA : 10.0

TECHNICAL EXPERIENCE

- Designed and Demonstrated '**Whac-a-Mole**' Game in which the player hits the switch corresponding to the glowing LED on a Digital Circuit Simulator as a part of Design of Digital System course.
- Tested the **Multicore Capability and Core Synchronization in Ubuntu** as a part of Operating Systems curriculum. Client-Server architecture and graphically demonstrating core synchronization. All cores sort their individual datasets simultaneously. The main core then merges the smaller datasets. Checked the time taken by 1 core and multiple cores.
- Implemented '**RideSharing Simulation**' using '**Manhattan Taxicab Metric**'. Assuming the roads in a city to be a grid (like in Manhattan city) the algorithm will pair people travelling the in the same route and send info to the driver with navigation details.

TECHNICAL SKILLS

- **Languages:** C/C++, python, Java
- **Web Design:** HTML, CSS
- **Operating Systems:** Windows, Linux
- **Tools and Framework:** Git, R Statistical Tool, Eclipse, Codeblocks, Geomviewer

AWARDS AND HONOURS

- **Internshala VTC Young Achiever Scholarship** 2016
Internshala Pvt. Ltd.
- **Kishore Vaigyanik Protsahan Yojana (KVPY)** – Shortlisted for the fellowship 2014
Department of Science and Technnology, Government of India
- **Central Sector Scholarship Scheme** 2014
Ministry of Human Resource Development, Government of India
- **National Level Science Talent Search Examination** – All India Rank: 143 2014
Unified Council Testing and Assessment Service
- **Joint Entrance Examination** – All India Rank: 1034 (99.4 percentile) 2014
Central Board of Secondary Education (CBSE)
- **Student of the year** 2013
Times of India

EXTRA CURRICULAR ACTIVITIES

- Executive member of the university chapter of Indian Society for Technical Education.
- Participation in and direction of Street plays in University.
- Active participation in debate competitions at interschool level, received the **Eloquent Speaker** award for the 2013- 14 outgoing batch at school.
- Played Keyboard and Violin in School rock band and performed in shows.