Debmalya Sinha

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INTERESTS

Light Fields
Physically Based Rendering
Affective Computing
Machine Learning
Human Computer Interaction

EDUCATION

UNIVERSITY OF WARWICK

Coventry, United Kingdom.
Ph.D, Computer Graphics
Submitted

M.Phil, Engineering
Conc. in Computer Graphics
Grad. 2015

IIT KHARAGPUR

Indian Institute of Technology
Kharagpur, India.
MS, Computer Science
Conc. in Human Computer
Interaction (HCI)
Grad. July 2013 | GPA: 8.47

SKILLS

PROGRAMMING

10000+ lines:
C++ • C • GTK+2
5000+ lines:
C# • Matlab • Python • CSS
• JavaScript • OpenGL
Good Familiarity:
Java • PHP • Perl • Shell •
OpenCV • OpenCL • SDL

ART

Classical Vocalist
Documentary Photographer
Guitar and Piano player

LINKS

Github:// **ecntrk**
LinkedIn:// **ecntrk**
Quora:// **Debmalya-Sinha**
Slideshare:// **debmalyasinha**
DBLP:// **Sinha:Debmalya**

EXPERIENCE

TRUEDR LTD. | Lead developer

Dec 2017 - Present | Leamington Spa, UK.
HDR image processing for Computer Vision in safety critical automotive applications.
Exp: OpenCV, OpenGL, GPGPU (OpenCL), various tone mapping, image processing and feature detection techniques.

SENSOMATICS | Full-stack developer

Jun 2017 - Nov 2017 | Leamington Spa, UK.
Front and back-end development and maintenance of EU funded project ERC Disconex.
Exp: C#, HTML, CSS, Javascript, SQL and related technologies.

FELICITOUS COMPUTING GROUP | Research Scientist

Feb 2013 - Feb 2014 | Department of CS, NUS Singapore
Emotion detection from gesture and gait in a continuous 2D emotion space of Valence and Arousal rather than only discreet emotional states. Invited talks at universities (NTU, NUS, IIT) and at Microsoft Research Asia, Beijing. **Exp:** Affective computing, Kinect, OpenCV, ANN and various Machine learning algorithms.

SNLTR | Senior Project Officer

Society for Natural Language Technology Research
August 2009 – December 2012 | IIT Kharagpur, India
Development of a Bangla Linux user interface. **Exp:** HCI, Usability, GTK+2, OpenGL, Linux systems programming, UI development.

RESEARCH

VISUALISATION GROUP | Graduate Student

April 2014 – Present | University of Warwick, U.K
Development of a Light Field based technique for capturing and rendering both spatially and temporally varying light from real-world scenes with photorealistic precision and scalability. Publication submitted.
Supervisors: **Dr. Kurt Debattista** and **Prof. Alan Chalmers**

MEDIA LAB ASIA | Research Fellow

Jan 2010 – Jan 2013 | IIT Kharagpur
Development of a Linux desktop user interface including a novel file browser for socio-economically backward people from rural India with no prior technical exposure.
3 Publications: C1, C2, C3 at DBLP.
Supervisor: **Prof. Anupam Basu**

AWARDS

2014   Queen's Awards and Bursary Scholarship, U.K.
2012   Runner's up at Hack-test at NUS Singapore (Shengdong Zhao).
2011   Finalist (5th of 72) at Yahoo HackU 24 hour hackathon.
2009   Top 1% in Graduate Aptitude Test in Engineering, India
2008   Fedora Ambassador (Joerg Simon) and contributor at DgpLUG.