Pritish Sahu

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Education

Rutgers University, New Brunswick, NJ — September 2015 – Present
Master of Computer Science
Coursework: Algorithms • Computer Animations • Introduction to Artificial Intelligence

National Institute of Technology, Rourkela, Orissa, India — August 2007 – May 2011
Bachelor of Engineering in Computer Science — **GPA – 7.63/10**

Academic Projects

- Web based algorithms projects titled "**Algorithms Snippets**" to make students/industrial people understand the working of **Minimum Spanning Tree**(**Kruskal**, **Prim**) by animating the graph step by step for better understanding. GitHub link : https://github.com/sahupritish/algorithmsnippets
- Implemented linear classifiers (**Perceptron**, **Naive Bayes**, & **MIRA**(**Margin Infused Relaxed Algorithm**)) to classify numbers digits sets(0-9) and face detection. GitHub Link : https://github.com/sahupritish/Classification
- Implement A-star and animating its path as it explores path and its various version like **Forward-A***, **Backward-A*** & **Adaptive-A***. GitHub Link : https://github.com/sahupritish/Astar
- Implemented several algorithms in computer animations like curves(**hermite, catmull splines**), collision detection(**GJK-EPA**), **social forces navigation model**, A-Star. Also used unity to create narratives using **behavior trees**. Presented a report on "**Behavior Authoring**" studying the current research areas and their short commings.

YouTube Links: "https://www.youtube.com/channel/UC0orUzfMfJLj2V-4I3g_Yxg"

Blog Links: "https://cgf1524rutgers.wordpress.com/"

Git Link: "Git : https://github.com/CG-F15-24-Rutgers/"

- Performed "**Study of approaches to remove show-through and bleed-through in document images**" as my undergraduate project under the guidance of Dr. Pankaj Kumar Sa, Assistant Professor, National Institute of Technology, Rourkela, India. Thesis online version : http://ethesis.nitrkl.ac.in/2668/1/tech_report.pdf

Skills

- Programming Languages: C, C++, Java, Java script, HTML, CSS, Python, bash, Makefile, Latex, Matlab.
- Tools: Git, Perforce, Eclipse, Visual Studio, Unity, ARM Streamline, Protex IP, Valgrind, BullsEye.
- Library Knowledge : OpenGL/GLES, OpenCV, COGL, Clutter.

Experience

Senior Software Engineer -2, **Samsung R&D,** Noida, India — July 2011 - July 2015
Product: Samsung Smart/Non Smart TV

- Contributed in development of Core Graphics library- 2D/3D drawing for animation, image decoding, text drawing. Implemented X-EGL support, optimization in library, scavenging mechanism for memory optimization, designing of client-server architecture, implementation of IPC using binder and **Client Side GL** rendering
- Developed application framework to manage various applications interactions, on screen keyboard supporting various language.

Acheivements

- Received best project award from **Samsung R & D**, Noida, India.