Ganesh Belgur Ramachandra

https://www.alienspline.com/

EXPERIENCE

• MPC Film

Bangalore, India Feb 2017 - Present

Email: ganeshbelgur@gmail.com

Github: github.com/mrcivvy

Software Developer - R&D https://www.mpc-rnd.com/

- Furtility: Developed and refactored in-house tool for creating photorealistic hair, fur, feathers and other fibre like clothing
- Haystack: Developed a new in-house tool based on Furtility for previewing scenes with high density vegetation in Fabric Engine
- o FurtilityX: Making Furtility compliant with a new pipeline using Universal Scene Description data

• Xentrix Studios

Bangalore, India

Developer - Pipeline http://www.xentrixstudios.com/ Jul 2016 - Feb 2017

- Developed and optimized in-house C++ plug-ins for Autodesk Maya
- Improvements to studio's CG pipeline and aiding artists in troubleshooting bugs

• EduTech Solutions (P) Limited

Intern

Bangalore, India Oct 2014 - Apr 2015

• Database Management: Worked with a team of developers on designing the database schema for managing, storing, retrieving of quizzes and user information which included handling of media files for the Phase I development of an Android app called DLM (Definitive Learning Methodology) under Mr. Kundendu Kumar Sengupta, Director of EduTech Solutions (P) Limited

PROJECTS AND PUBLICATIONS

- Minimalistic Raytracer: A ray tracer implemented based on Peter Shirley's minibook series on writing a raytracer.
- DreamWorks FX Challenge: A simulation of sparks flying in a projectile trajectory that collides with obstacles and splinters.
- DreamWorks Steer Quest: A flocking simulation of a herd of sheep avoiding static and dynamic obstacles in a scene to reach a designated destination.
- Alienspline: A personal, static, technical blog site that is written from scratch using HTML, Sass, Javascript and powered by Jekyll for quick content management.
- Grammar Error Detection Tool: A noval approach based on NLP for detecting grammatical errors in a text. A technical paper was presented on this approach at the Jawaharlal Nehru Technological University, Hyderabad which was published by Springer under the title, 'Proceedings of ICCII 2017, Springer Advances in Intelligent Systems and Computing'.
- Target Identification: A student project requiring an implementation of an SAX parser to read through 7 million lines of an XML based drug bank data (https://www.drugbank.ca/) to search and push targets associated with a drug into a database.

EDUCATION

• Amrita School of Engineering

Bangalore, India

Bachelor of Technology in Computer Science and Engineering with Distinction

Aug. 2012 - Aug. 2016

Courseware: Computer Organisation and Architecture, Operating Systems, Data Structures and Algorithms,
Database Management Systems, Computer Networking, Computer Graphics, Automata theory and Computer
Language Engineering, Net-centric Programming, Software Engineering;

SKILLS AND ACCOMPLISHMENTS

- Programming Languages: C, C++, Python, Lua, Fabric Engine's KL, HTML, CSS, Sass, Javascript;
- Technologies and Frameworks: OpenGL, Maya, Katana, Houdini, Jekyll, Blender, Unity;
- Honor and Award: Won the third place in Stay Late And Code event, a hackathon which was held at college; Successfully completed a Diploma Course in Visual Effects;
- Volunteering: Served as a Student Volunteer at the ACM SIGGRAPH Asia 2017, Bangkok; Volunteer/ Mentor at GAFX 2018, Bangalore; Organised hackathons at college
- Languages: English (Professional working proficiency); Kannada (Mother tongue);