

Erfan Momeni Yazdi

Software Engineer

Master's student in Signal Processing and Machine Learning with a strong passion for programming. Advanced knowledge of C++ and graphics programming. Logical and professional with excellent problem-solving and communication skills.

Experiences

2022-09 -

Current

Research Assistant

Tampere University, Tampere

TauBench

- TauBench is a benchmarking tool that is specifically designed to stress temporal reuse algorithms
- Improved and fixed many problems with TauBench 1.0 and later released TauBench 1.1 along with new performance measurements and rendering results ([link](#))
- Currently working on the next version of TauBench

Tauray

- Practiced and researched ray tracing concepts such as Monte Carlo estimation, Multiple Importance Sampling (MIS) and acceleration structures
- Researched real-time stochastic lightcuts method

2019-06 -

2019-08

Summer Research Intern

K.N. Toosi University of Technology, Tehran

- Completed research, compiled data, and assisted in timely reporting
- Wrote code samples for Sentiments Classification using Machine Learning (PyTorch)

Projects

• Syndra

- Fast Real-Time rendering Engine using OpenGL API and C++ ([Github](#) | [Youtube](#))

Contact

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Github

<https://github.com/ErfanMo77>

Twitter

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WWW

<https://erfanmomeni.netlify.app>

LinkedIn

<https://www.linkedin.com/in/erfanmo98>

Skills

C++

●●●●●
Advanced

OpenGL

●●●●●
Advanced

Git

●●●●●
Advanced

C#

●●●●●
Intermediate

- Implemented Rendering Algorithms such as Deferred Rendering
- **Tauray**
 - Integrating FSR2.2 upsampling algorithm in the renderer ([Github](#))
 - Minor improvements
- **Lucin**
 - Implemented a simple multi-threaded CPU Path Tracer with C++ ([Github](#))

Education

2022-09 - Current	Master of Science: Signal Processing And Machine Learning <i>Tampere University - Tampere, Finland</i>
2016-09 - 2021-08	Bachelor of Science: Computer Engineering <i>K.N. Toosi University of Technology - Tehran, Iran</i>

Certifications

2021-07	Linear Algebra - Foundations to Frontiers by UTAustinX
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Selected Courses

- Advanced Computer Graphics (Vulkan)
- Computer Graphics (5/5)
- Software Engineering (A)
- Software Testing (A)
- Algorithm Design (A)
- Parallel Computing (OpenMP, OpenCL, SIMD) (4/5)

Vulkan

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Beginner

Linux

●●●●●
Intermediate

RenderDoc

●●●●●
Intermediate

Python

●●●●●
Intermediate

Java

●●●●●
Intermediate

Languages

English

●●●●●
Excellent

Persian

●●●●●
Excellent