AlexanderLingtorp

software engineer

about

Alexander Frank Lingtorp

Professorsslingan 33 114 17 Stockholm Sweden

+46 (0)72 00 484 39

alexander@lingtorp.com

github/Entalpi

www.lingtorp.com

languages

swedish/english basic polish elementary german

interests

scientific computing, GPUs, LATEX, hiking, game technology, Dungeons & Dragons, computer graphics & visualizations, game development, Rust, C/C++, low-level architecture, Magic: The Gathering, software optimization

education

2020 Master of Science in Computer Science & Engineering

Royal Institute of Technology (KTH), Stockholm, Sweden

Civilingenjör Datateknik specialized in visualizations & scientific computing.

2017 Bachelor of Science in Computer Science & Engineering

Royal Institute of Technology (KTH), Stockholm, Sweden

experience

2022	Software Engineer	Netlight
	Cult gaming industry	

C++, gaming industry

Consultant within the gaming industry and related industries

2020 Game Engine Programmer Avalanche Studios

C++, low-level systems development

Developing and optimising various systems in Avalanche's proprietary in-

house game engine Apex.

2018 GPU Software Engineer UX3D

C++, visualizations, computer graphics

Researched how subsurface scattering can be formulated as a extension to

the gITF model format.

2017 Embedded Software Engineer (internship) Megger

C, embedded platforms, visualizations

Investigated potential implementations for various future products.

2015 iOS Engineer Greenely

Swift, startup, visualization of energy data

publications

2020 Real Time Voxel Cone Tracing using Bilateral Filters and 3D Clipmaps

M.sc thesis

computer science & graphics, C++, OpenGL

Researched how the illumination method voxel cone tracing could be im-

proved in terms of run time and memory performance.

2017 Performance comparison of parallel turbulent noise evaluation

B.sc thesis

GPGPU, OpenCL, noise generation

Investigated serial and parallel implementations of the Perlin noise algorithm.