AlexanderLingtorp

software engineer

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Alexander Frank Lingtorp

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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.

2018 Exchange semester in Computer Science

Technische Universität München (TUM), München, Germany

2017 Bachelor of Science in Computer Science & Engineering

Royal Institute of Technology (KTH), Stockholm, Sweden

experience

2020	Systems Programmer	Avalanche Studios, Stockholm
	C++, low-level game engine systems development	

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

house game engine Apex.

2018 GPU Software Engineer

C++, visualizations, computer graphics

Researched how subsurface scattering can be formulated as a extension to

the gITF model format.

2017 Embedded Software Engineer (internship)

C, embedded platforms, visualizations

Investigated potential implementations for various future products.

2015 **Lead iOS Developer**Swift, startup, visualization of energy data

Greenely

Megger

UX3D, Germany

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 with dif-

ferent gradient selection methods

B.sc Thesis

computer science, GPGPU, OpenCL, noise generation

Investigated serial and parallel implementations of the Perlin noise algorithm.