Contact

nweston@fastmail.com

www.linkedin.com/in/nathan-
weston-710757173 (LinkedIn)
nathan-weston.com (Personal)

Top Skills

C++
CUDA
Python (Programming Language)

Nathan Weston

Python & C++ Programmer with Focus in Image Processing
Greater Boston

Summary

Nathan is a software engineer with 15+ years of experience as a tech lead and individual contributor. He has extensive knowledge of image processing, GPU programming, graphics, and performance optimization. He can be reached at nweston@fastmail.com.

Experience

nathan-weston.com
Software Development Consultant
March 2019 - Present (3 years)
Greater Boston Area

Worked with small companies on a variety of projects involving GPU programming with CUDA and Metal, front-end development, and software design and process improvement.

Some highlights:
• Automated the port a large CUDA codebase to Metal using clang-based source code transformation
• Developed key parts of the front end for a molecular visualization tool
• Assisted with design and implementation of a distributed sensor system

Packt
Course Author
June 2019 - August 2019 (3 months)
Author of the "Learning CUDA 10 Programming" video course.

GrammaTech
Software Engineer
November 2015 - October 2018 (3 years)
Developed successful research prototypes in topics such as automated program repair, security hardening, disassembly, and binary analysis.

Much of this work was released under open source licenses at github.com/
GrammaTech. During this time I quickly came up to speed on multiple
research areas.

GenArts, Inc.
Principal Software Engineer
February 2005 - October 2015 (10 years 9 months)
Greater Boston Area

Led the team which developed Sapphire, a suite of high-end visual effects
tools. I designed and implemented GPU-accelerated effects using a variety
of image processing and rendering techniques. During my time as team lead
we made several major additions to the software, such as an interactive effect
builder and a state of the art lens flare engine, while consistently hitting our
deadlines and delivering high quality releases.

Education

Brown University
Master of Science - MS, Computer Science

Hamilton College
Bachelor of Arts - BA, Computer Science