Maxim Noah Khailo

www.mempko.com
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OBJECTIVE Grow amazing software for a better world.

COMPUTER SKILLS
Languages & Software: C++, Java, Perl, Lua, Qt, GCC, CMake, OpenCV, ZeroMQ
Operating Systems: Linux, Windows, Mac

EXPERIENCE

Senior Architect 2008-Present
Nokia HERE, R&D Department, Chicago, IL
- Working with teams to design large scale infrastructure for algorithmic data processing.
- Instrumental in the design and implementation of a computer vision system which runs on a large computer cluster for processing petabytes of data.
- Built novel visual debugging and instrumentation tools for developing computer vision algorithms.
- Worked on reporting software to help analyze the performance of our algorithms.
- Designed wire protocols to distribute and process data built on ZeroMQ.

Software Engineer 2006-2008
SSS-Software, Lisle IL
- Designed and implemented a GIS mapping server which was the back-end to the client side offering.
- Wrote decoders for government and proprietary image formats from spec.
- Created a custom rasterizer to render vector data within the GIS mapping server.
- Built a renderer of elevation data which supported lights and self shadowing.

Research Programmer 2002-2006
North Central College, Naperville, IL
- Designed and implemented stock simulation software in C++ which ran on the university's computer cluster.
- Implemented dozens of stock indicators to experiment with various parametric optimizations and their performance on historical data.
- Wrote a 'top' replacement in C++ to display system statistics for a Linux system with a curses user interface.

Contract Programmer 2003-2005
Design Concepts, Western Suburbs, IL
- Wrote an MP3 music library manager similar to iTunes but targeted towards inexperienced computer users and the elderly.

FREE SOFTWARE Download/View at **www.mempko.com**

- **Firestr** A simple but amazing P2P computation and communication platform.
- **Muda** A web task list manager written using the DCI programming pattern.
- **NCC** 3D game engine written in C++/Lua. OpenGL, Physics, OpenAL
- **Neural** Neural-net library and demos in C++

EDUCATION
Bachelor of Science, Computer Science
North Central College, Naperville, IL January 2006