Oana-Georgiana Niculăescu

Curriculum Vitae

Education

Oct 2010 - Bachelor's degree in Computer Science, Faculty of Automatic Control and Computer Science,

present Politehnica Univesity of Bucharest, Bucharest, Romania.

Sept 2006 - High School Diploma, "Constantin Carabella" National College, Tirgoviste, Romania.

Jun 2010 Computer Science and Mathematics Major

Projects and Professional Experience

June 2013 - ADVAHOO Business Solutions, Part-time Software Developer.

Present Java and JavaScript

Summer Gerbil - open source software, small contributions.

2013, small Implemented the image differencing module for the software, the module employs different distance

contribution measuring algorithms

Aug 2012 - ESA Summer of Code, BRLCAD Project.

Oct 2012 Bullet Integration - Physics Application

Jun 2012 - SC Revo Solutions SRL.

Aug 2012 Junior Software Intern

Jun 2012 - 3dUPB - 3dXP, GPGPU Team, Student Developer.

Aug 2012 Client-Server Model CUDA Collision Detection

Small Projects

OpenMP - Solving the problem of the colonists who need to decide what they will produce in a Threading year using parallelism and OpenMP, Colonist are living on a matrix-like land and they can

communi- produce 2 kind of goods, A and B, they need to decide what kind of goods they will produce cating using that year so that they will get a maximum profit.

ing using that year so that they will get a maximum profit.

OpenMP

Rubik cube

mentation

MapReduce We are given some key words, we need to look them up inside all the documents and

- Sorting then sort the documents by relevance, the most relevant document is that one in which

documents **all the key words appear more times than a number n**. by relevance

OpenGL - Implementing a Rubik cube in 3D using OpenGL and C++.

Linux Implementing a minishell in the linux user space that will emulate the bash shell com-Minishell mands and actions.

Linux - MPI Implementing a dynamic library in the linux user space that will emulate the basic library imple- functionality of the MPI library.

TV Channel Given 16 TV streams of 624x380px images we need to render a final stream composed Rendering of those 16 images, with 624x380px dimensions using the Cell Arhitecture.

Preview -

Cell Arhitecture

Blas dsymv Using the Blas function library there must be made a comparison between a hand function op- implemented version of the dsymv function, with compiler and different arhitecture timizations optimizations and the native Blas function.

the unix system

Swap and A dynamic shared library that allows allocating multiple virtual memory areas where page faults, demand paging operations, swap in and swap out operations would be pager for simulated.

system

Thread Implementing a thread scheduler that will control the execution of threads in the userscheduler for space. The scheduler will simulate a preemptive process, in a uni-processor system the unix that will use a Round-Robin scheduling model.

Computer skills

Programming Good knowledge: C, Java, Networking Languages Medium knowledge: C++, JavaScript, Operating Systems Programming knowledge,

Network Protocols, Cisco IOS Beginner: Python, Bash, Oracle

Operating

Systems

Versioning Git - https://github.com/elf11

Languages

Romanian Native

Linux

English Fluent

Interests and Hobbies

- Operating Systems
- Computer Graphics
- Networking, Computer Networks
- Distributed Systems
- Parallel Processing
- Network Protocols
- UI/UX