



Hakim Adil Kadhim

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SUMMARY

I have a good experience in programming language development for parallel computations. I worked on several projects in GPUs applications, Network simulation, web service applications and face recognition applications.

HOME ADDRESS

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WORK ADDRESS

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EDUCATION

NOVEMBER 2003- NOVEMBER 2007	B.Sc. Computer Engineering and Information Technology/ The University of Technology/ Baghdad/Iraq.
JULY 2010- SEPTEMBER 2012	Master of Computer Science (Network and Distributed System)/ Universiti Sains Malaysia (USM)/Pinang/Malaysia

COMPUTER SKILLS

LANGUAGES	Quick- Basic, Visual Basic6, Visual Basic6, C/C++, C#, Java and MATLAB.
DBMS	MS SQL Server 2005, MYSQL and MS Access
PACKAGES	Microsoft Office, Adobe Photoshop
WEB DEVELOPMENT	HTML, ASP.NET, PHP, Dream Weaver, XML and JavaScript
NETWORK AND PARALLEL PROGRAMMING	MIP, OpenMP, CUDA(GPU programming) and NS2 under LINUX



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COURSE WORK IN KUFA UNIVERSITY

- Basic concepts of Computer Programming Language (I) (Quick-Basic and Visual Basic 6).
- Advanced Computer Programming Language (II) (C/C++ with Object Oriented Concepts).

M.SC. WORK AND RESEARCH EXPERIENCE

Summer 2012- Present	Recently, the string matching algorithms have a broad resonance in many areas in computer sciences. These areas include operating systems, information retrieval, editors, Internet searching engines, security applications and biological applications. Two important factors use to evaluate the performance of the sequential string matching algorithms which are, number of attempts and total number of character comparisons during the matching process. This research proposes to integrate the good properties of three single string matching algorithms (Quick-Search, Zuh-Takaoka and Horspool) to produce hybrid string matching algorithm called Maximum-Shift algorithm, which will be parallelized by using CUDA device (GPU) to increase its speed up during the matching process. The hybrid algorithm was tested on different types of standard data during the sequential and parallel phases. The sequential hybrid algorithm (Maximum-Shift) shows efficient results compared with four string matching algorithms (Quick-Search, Horspool, Smith and Berry-Ravindran) in terms of the number of attempts and the total number of character comparisons. The parallel version of the hybrid algorithm shows slight outperforming over the sequential version in terms of running time, speed up rate and percentage of performance gain, and this is because of the limitations of GPU device. On the other hand, the parallel version of Maximum-Shift algorithm shows better results compared with parallel versions of two hybrid string matching algorithms (Quick-Search + Karp-Rabin and Quick-Search + Karp-Rabin + Two-way) proposed by the earlier researchers in this area in terms of running time and speed up rate metric.
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WORK EXPERIENCE

September '12 – Present	Technician and manager of engineering college website
May '13 – December '13	One of the planning staff of Student Information System (SIS) project in Kufa University.

TEACHING EXPERIENCE

I am Assistant Lecturer at the Department of Electronic and Communications Engineering at the University of Kufa. I lectured (Computer Programming I) of the first level in 2012/2013 Academic Session and currently (2013/2014 Academic Session) I lectures (Computer Programming I) to the first level and (Computer Programming II) to the second level.