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EDUCATION

Center for Research in Mathematics (CIMAT)
Ph.D. Computer Science. Department of Computer Science, 2015 (Expected).
Grade: 9.9/10.0
Center for Research in Mathematics (CIMAT)
Master of Science. Department of Computer Science, August 2006.
Grade: 9.7/10.0
University of Guanajuato
Bachelor of Science. Computer Science, August 2004.
Grade: 9.3/10.0

PROFESSIONAL EXPERIENCE

Research Associate	Computational Biomedicine Lab University of Houston.	January 2010 - July 2011

Developed algorithms and computational tools for 3D-face recognition.
Key accomplishments:
- 7 peer-reviewed publications
- Speed up our face recognition system from 1,000 to 2,000,000 facial signature comparisons per second, while improving recognition performance and robustness.

Optimization engineer	Applied Technology Center PROLEC-GE	July 2008-December 2009

Developed algorithms for electrical transformer design and optimization.
Key accomplishments:
- Improved algorithms performance using parallelization
- Improved numerical stability of algorithms for electrical and mechanical computations

Software developer	Software Development Department CIMAT	August 2006-July 2008

Development of the CIMAT's "Intelligent Blackboard", which is an educational interactive software for remote teaching.
Key accomplishments:
- Developed the handwritten Character Recognition and Sketch Recognition modules of the system
- Developed the communication module of the system (which transmits voice and data between two remote electronic blackboards)

ENGLISH PROFICIENCY

TOEFL ibt: total score 106/120, taken on March 12th, 2010. Listening 28/30. Speaking 22/30. Reading 27/30. Writing 29/30.

PROFESSIONAL AND RESEARCH INTERESTS
Statistical computing
Computer Vision
Constrained/unconstreained optimization
Convex Analysis
Artificial intelligence
Parallel computing
Software engineering

EXPERTISE

	Skill (experience level, from basic to expert: 1-5)
Systems:	Windows(4), Linux(3)
Languages:	C/C++ (4), Java(J2SE) (2), Pascal(4), PHP(2), SQL(3), R(2)
GUI:	Borland's VCL(4), MicroSoft's MFC(3), Nokia's Qt(3)
IDE:	Borland C++ Builder(4), MS Visual Studio(4), Eclipse(2), Netbeans(2)
UML:	StarUML(3), TopCoder UML Tool(3)
Parallel computing:	posix threads (3), GPGPU(CUDA) (1)

HONORS AND AWARDS

- 4th Place. 1st Mexican Open Programming Competition (Guanajuato, Mx, 2007)

- National Department of Science and Technology (CONACYT) scholarship for graduate studies from August, 2004 to July, 2006

- Center for Research in Mathematics (CIMAT) scholarship for undergraduate studies from August, 1999 to July 2004

- Best C.S. student award from 2000 to 2004, University of Guanajuato

- Contestant in the World Finals of the International Collegiate Programming Contest, ACM (Beverly Hills, USA, 2003)

- 2nd Place. The 2002 ACM Central America Programming Contest (Querétaro, Mx. 2002)

- Contestant in the 11th International Olympiad in Informatics (Antalya, Turkey, 1999)

- 1st Place. 4th National Informatics Olympiad (México, Mx., 1999)

- Bronze medal. 1st Iberoamerican Informatics Competition (México, DF. 1998)

EXTRACURRICULAR ACTIVITIES

- Problem setter. 4th Mexican Open Programming Competition (Guanajuato, Mx, 2010)

- TopCoder rated member. Handle: khayyam

- Guanajuato State's Informatics Olympiad. Co-founder (1999) and Co-Organizer
Duties: activities related to the organization, diffusion and administration of the Informatics Olympiad in Guanajuato.

PUBLICATIONS

Please refer to my Google Scholar Profile (Omar Ocegueda): 10 publications, 72 citations, h-index: 4).