

DAVID GNABASIK

<http://cse.ucdenver.edu/~dgnabasik/>

Education:

- Now Ph.D. candidate in Computer Science at Univ. of Colorado Denver. Thesis: *Discrete Time Evolution of Proteomic Biomarkers*. Advised by Dr. Gita Alaghband.
- 07 Certificate in Computational Biology at Univ. of Colorado at Denver and Health & Sciences Center (UCDHSC). Advised by Dr. Stephen Billups.
- 02 M.S., Computer Science, UCDHSC. Thesis: "Distributing Java Applications from an Oracle Database"
- 79 B.A. from the "Committee for the Analysis of Ideas and the Study of Methods", Univ of Chicago.

Professional Experience:

- 10-14 Instructor, Department of Computer Science and Engineering, UCD. Taught CSCI.3511 *Hardware-Software Interfaces* using PIC32 Cerebot 32MX4 micro-controller.
- 12-14 Instructor, Department of Computer Science and Engineering, UCD. Taught CSCI.3508 Software Engineering.
- 11 Instructor, Department of Computer Science and Engineering, UCD. Taught CSC.3412 *Algorithms*.
- 07-10 Developer, instructor of *Game Software Automata* course to students enrolled in the NSF REACH pre collegiate Summer Engineering Program.
- 07-09 Graduate Assistant (funded; ENGR-Computer Science) Web Developer of UCD NSF Recruiting Engineers to ACHieve (REACH) web site.
- 07-08 Student Asst VI (funded; SOM-Preventive Medicine): Biostatistical Developer - performed statistical analysis of SEER cancer data in 'R'.

Industry Experience

Extensive production experience delivering multi-tiered relational database, object-oriented, and web service applications. Proficient in SQL, C#, C++, C, Java, MATLAB, R, Mathematica.

- 13-14 Software consultant for TEKsystems, Inc.
- 12 Senior Software Engineer at Alpine Access, Inc.,
- 11 Telecommunications Software Developer to Alltel Wireless.
- 08-10 Software Engineer at Baxa Corp. developer of medical device software.
- 04-06 Senior Programmer / Analyst, Premiere Global Services, Inc.
- 01-04 General Manager, Streaming Software Solutions, LLC
- 98-01 Telecommunications Software Engineer / Project Manager, T-NETIX, Inc.

Recognition, Honors:

- 11 Awarded Graduate Alumni Engineering Scholarship.
- 10 Awarded Graduate Alumni Engineering Scholarship.
- 10 UCD Research and Creative Activities Symposium.
- 08 Presented thesis work at Rocky Mountain Bioinformatics Conference, Dec. 2008.
- 02 Awarded UCDHSC-CSE Department Scholarship.

Professional Organizations:

- 14 Colorado BioScience Association member.
- 00 Association of Computing Machinery member.

Professional Development Workshops:

- 03 Awarded Certified Information System Security Professional (CISSP) certification.
- 01 UCDHSC Continuing Engineering Education “Project Management Skills” class (NCES 8999).

Published Articles & Presentations:

Gnabasik, D., Alaghband, G., “Discrete Time Evolution of Proteomic Biomarkers,” The Power of Informatics to Advance Health, UCHSC, Aurora, CO 3/2014

Gnabasik, D., Alaghband, G., “Discrete Time Evolution of Proteomic Biomarkers,” Proceedings of the 2014 International Conference on Computational Science and Computational Intelligence (CSCI'14) Vol. II, pp 11-16. Eds: Prof. Babak Akhgar, Prof. Hamid R. Arabnia. Published by IEEE Computer Society.

Gnabasik, D., Alaghband, G., Duncan, M., “Proteomic Data Analysis: a Topological Approach,” Proceedings of the 2012 International Conference on Bioinformatics & Computational Biology (BioComp'12), Vol. II. Ed. Prof. Hamid R. Arabnia. Published by IEEE Computer Society.

Alaghband, G., Gnabasik, D., “Topological Analysis of Proteomic Data,” 2012 International Conference on Collaboration Technologies and Systems (CTS 2012), Westminster, CO 5/2012

Alaghband, G., Gnabasik, D., “Dynamic Distribution of Java Applications,” Informatica, an International Journal of Computing and Informatics, Vol. 31, No. 3, November 2007 (<http://www.informatica.si/>).

Alaghband, G., Gnabasik, D., Fardi, H. Z., “Scientific Assistant Virtual Laboratory (SAVL),” American Physics Society (APS), MA07 Meeting, Denver Convention Center, Denver, Colorado, March 5-9, 2007.

Alaghband, G., Gnabasik, D., “Streaming Java Applications to Mobile Computing Devices,” The 2004 International Conference on Wireless Networks, ICWN'04: June 21-24, 2004, Las Vegas, Nevada, USA.

Collaboration:

Dr. Gita Alaghband: MS thesis advisor. Chair, Department of Computer Science and Engineering, UCD. Co-Director of CSIS PhD program, UCD.

Dr. Mark Duncan: Postdoctoral thesis advisor. Professor, Department of Medicine, University of Colorado Health Sciences Center. Director, UC Denver Proteomics Shared Resource.

Fardi, H. Z., Alaghband, G. for NSF Advanced Learning Technologies 06-535 proposal, *The Scientific Assistant Virtual Laboratory*.