

# PETER PESTI

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**OBJECTIVE** Seeking research-oriented internship for Summer 2010.

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**RESEARCH INTERESTS** Distributed Systems, Mobile Systems, Internet Computing, Middleware Systems, Cloud Computing

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**EDUCATION** 2006– **PhD in Computer Science**, Georgia Institute of Technology, Atlanta, GA  
Area: location based systems, mobile computing  
GPA: 4.00/4.00

2004–2006 **MS in Computer Science**, Georgia Institute of Technology, Atlanta, GA  
Area: computer vision; human-computer interaction  
GPA: 3.66/4.00

2000–2006 **MSc in Technical Informatics**, Budapest Univ. of Technology, Hungary  
Area: speech synthesis; software technologies  
GPA: 4.54/5.00

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**IMPACTFUL PROJECTS**

- “Google Maps Nighttime!”: mashup webpage (165,000 unique visitors in first month), 2006 ([www.cc.gatech.edu/~pesti/night/](http://www.cc.gatech.edu/~pesti/night/))
  - “mGraffiti”: satellite and map imagery based community interaction software for Windows Mobile powered PDAs. US national finalist and regional 1<sup>st</sup> prize winner at Microsoft Imagine Cup software design competition, Redmond, WA, 2005 ([www.cc.gatech.edu/~pesti/mgraffiti/](http://www.cc.gatech.edu/~pesti/mgraffiti/))
  - Corpus-based speech synthesis engine in C++ for Hungarian. Received thesis award of the Hungarian Scientific Association for Infocommunications (2006). Presented at the Student Researchers’ Conference: 1<sup>st</sup> place award by John von Neumann Computer Society (2004). Published results in a journal and at a conference.
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**HONORS, AWARDS**

- MSc diploma with distinction, Budapest, Hungary, 2006
  - Invited to highly selective McKinsey & Company EuroAcademy, Athens, Greece, 2005
  - Full scholarship from Naumann-Etienne Foundation, for studies at Georgia Tech, 2004
  - Scholarship of the Hungarian Republic (top 0.8% of all university students), 2003–2005
  - Scholarship from the GE Foundation’s Scholar-Leaders Program, 2002–2005
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**WORK EXPERIENCE**

**Software Engineering Intern**, Google, Kirkland, WA  
XFA/AdX Reservations Marketplace group, *Summer of 2009*  
Wrote production and experimental algorithms in Java and C++ for ad search & ranking.

**Research Intern**, Microsoft, Redmond, WA  
Microsoft Research, Systems and Networking Group, *Summer of 2007 and Summer of 2008*  
Created and coded new algorithm in C++ and C# for MapCruncher/Stitcher project.

**Graduate Research Assistant**, College of Computing, Georgia Institute of Technology  
Center for Experimental Research in Computer Science, *08/2006 – Present*  
Projects: Distributed Location-Aware Computing Systems, with Prof. Ling Liu.  
Working on RoadTrack Project and FastExpand Project.

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**WORK  
EXPERIENCE  
(cont'd)**

**Graduate Teaching Assistant**, College of Computing, Georgia Institute of Technology  
CS8803: Advanced Internet Application Development, *01/2008 – 05/2008*

**Teaching Assistant**, Budapest University of Technology and Economics  
Software Project Lab, *Spring of 2003, 2004 and 2006*

**Research Assistant**, Budapest University of Technology and Economics  
Speech Technology Laboratory, *September 2003 – July 2004, September 2005 – May 2006*  
Team project: Design, implementation and testing of speech synthesis software system.

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**TECHNICAL  
SKILLS**

- *Programming*: Java, C, C++, C#, Matlab, Prolog
  - *Software development*: Eclipse, Visual Studio, UML, OO design, Rational Rose, CVS, SVN
  - *Web technologies*: XML, HTML, PHP, JavaScript, Apache/Tomcat servers, socket programming, SOAP web services in C# and Java, RPC
  - *Databases*: SQL, MySQL, MS SQL, H2, JDBC
  - *Operating systems*: Linux, Windows, Windows Server, Windows Mobile
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**TECHNICAL  
REPORTS &  
PUBLICATIONS**

- Peter Pesti, Ling Liu, “FastExpand: Efficient Processing of Long Distance Queries on Road Networks”, Under preparation
- Peter Pesti, Ling Liu, Bhuvan Bamba, Arun Iyengar, “RoadTrack: Tracking Location of Mobiles on Road Networks with Query Awareness”, Submission to MobiSys 2010
- E. Martin, L. Liu, M. Weber, P. Pesti, M. Woodward, “Unified analytical models for location management costs and optimum design of location areas”, *5th International Conference on Collaborative Computing (CollaborateCom 2009)*, Washington D.C., 2009
- L. Liu, B. Bamba, M. Doo, P. Pesti, M. Weber, “mTrigger: An Event-based Framework for Location-based Mobile Triggers”, To appear in the *Handbook of Research on Advanced Distributed Event-Based Systems, Publish/Subscribe and Message Filtering Technologies*, Edited by Annika Hinze and Alejandro Buchmann, IGI Global, 2009
- P. Pesti, J. Elson, J. Howell, D. Steedly, M. Uyttendaele, “Low-Cost Orthographic Imagery”, *16th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems*, Irvine, CA, 2008
- B. Bamba, L. Liu, P. Pesti, T. Wang, “Supporting Anonymous Location Queries in Mobile Environments with PrivacyGrid”, *17th International World Wide Web Conference*, Beijing, China, 2008
- M. Fék, P. Pesti, G. Németh, G. Olaszy, Cs. Zainkó, “Corpus-Based Unit Selection TTS for Hungarian”, *Ninth International Conference on Text, Speech and Dialogue*, Brno, Czech Republic, 2006
- M. Fék, P. Pesti, G. Németh, Cs. Zainkó, “Generation Change in Speech Synthesis” (in Hungarian), *Hungarian Journal on Communications*, vol. 2006/3, pp. 21-30, Budapest, Hungary, 2006

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**TECHNICAL  
REPORTS &  
PUBLICATIONS  
(cont'd)**

- T. Westeyn, P. Pesti, K. Park, T. Starner, “Biometric Identification Using Song-Based Blink Patterns”, *11th International Conference on Human-Computer Interaction*, Las Vegas, NV, 2005
- A. Nagy, P. Pesti, G. Németh, T. Bóhm, “Design Issues of a Corpus-Based Speech Synthesizer”, *Hungarian Journal on Communications*, 2005/6. special issue, pp. 18-24, Budapest, Hungary, 2005

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**ACTIVITIES**

- External reviewer for WWW2008.
- Participated in professional one-week course (on university scholarship), Ecole Nationale Supérieure d'Arts et Métiers, Paris, France, *November 2005*
- Initiated and coordinated offering innovative Computational Neuroscience course (Prof. Peter Érdi), *December 2003*
- Participated in professional one-week course (on university scholarship), Ecole Nationale Supérieure des Télécommunications, Paris, France, *November 2003*
- Participated in professional one-week course (on university scholarship), Ecole Polytechnique, Paris, France, *March 2003*

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**OTHER**

- Languages spoken: English (fluent), French (intermediate), Hungarian (native)
- Invited member of Lifeboat Foundation's “Futurists” Scientific Advisory Board
- Interests, hobbies: value investing, photography, blogging, traveling, futurology

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**SELF-  
STATEMENT**

I am a high energy PhD student with a strong drive for innovation and achievement, frequently taking the initiative in my pursuit of excellence. As a flexible team player with great communication and problem-solving skills, I have gained over 5 years of experience in various R&D environments. With a genuine interest in the future, I am deeply motivated to take on new challenges and projects.