

# PELIN ANGIN

Lawson B116B  
305 North University Street  
Purdue University  
West Lafayette, IN 47907

+1 (765) 430-2140  
pangin@cs.purdue.edu  
<http://web.ics.purdue.edu/~pangin/>

## EDUCATION

- Ph.D., Computer Science, Purdue University (CGPA: 3.91/4.00) 2007 - Present  
Research Interests: Mobile & Cloud Computing, Distributed Systems, Data Mining  
Research Advisor: Prof. Bharat Bhargava (bb@cs.purdue.edu)  
Course Work: Algorithms, Computer Networks, Programming Languages, Advanced Topics in Distributed Systems, Statistical Network Analysis, Data Mining, Information Retrieval, Database Systems, Multimedia Database Systems, Cloud Systems for Blind and Hearing Impaired
- B.S., Computer Engineering, Bilkent University 2003 – 2007  
CGPA: 3.92/4.00 (ranked 4<sup>th</sup> among 150)

## REFEREED PUBLICATIONS

- A Trust-based Approach for Secure Data Dissemination in a Mobile Peer-to-Peer Network of AVs. B. Bhargava, P. Angin, R Sivakumar, R. Ranchal, M. Linderman, A. Sinclair, to appear in International Journal of Next Generation Computing, 2012.
- Real-time Mobile-Cloud Computing for Context-Aware Blind Navigation. P. Angin, B. Bhargava. International Journal of Next Generation Computing, Vol 2, No 2, 2011.
- A Mobile-Cloud Pedestrian Crossing Guide for the Blind. B. Bhargava, P. Angin, L. Duan. International Conference on Advances in Computing & Communication, 2011.
- A Mobile-Cloud Collaborative Approach for Context-Aware Blind Navigation. P. Angin, B. Bhargava, S. Helal. Grace Hopper Celebration of Women in Computing, 2010.
- A Mobile-Cloud Collaborative Traffic Lights Detector for Blind Navigation. P. Angin, B. Bhargava, S. Helal. 1<sup>st</sup> MDM International Workshop on Mobile Cloud Computing, 2010.
- An Entity-centric Approach for Privacy and Identity Management in Cloud Computing. P. Angin, B. Bhargava, R. Ranchal, N. Singh, L. Othmane, L. Lilien, M. Linderman. International Symposium on Reliable Distributed Systems, 2010.
- A Shrinkage Approach for Modeling Nonstationary Relational Autocorrelation. P. Angin, J. Neville. IEEE International Conference on Data Mining, 2008.
- A Shrinkage Approach for Modeling Nonstationary Relational Autocorrelation. P. Angin, J. Neville. 2<sup>nd</sup> SIGKDD ACM Workshop on Social Network Mining and Analysis, 2008.

## HONORS AND AWARDS

- ACM Graduate Teaching Assistant Award (2011)
- Purdue University Center of Academic Excellence Teaching Award (2011)
- Ross Fellowship for PhD study, Purdue University Computer Science Department (2007)
- Member of Golden Key International Honor Society (2011)
- Member of Upsilon Pi Epsilon Computer Science Honor Society (2009)
- Full scholarship for BS in Computer Engineering, Bilkent University (2003-2007)
- High Honor Student at Bilkent University (2003-2007)
- Ranked 312<sup>th</sup> among 1.5 million entrants in the Turkey University Admissions Exam, 2003
- Ranked 1<sup>st</sup> among 700 at graduation from TED Ankara College Foundation High School

## WORK EXPERIENCE

- Computation Student Intern, Lawrence Livermore National Laboratory (2010)
- Teaching Assistant, Purdue University Computer Science Department (2008-2012)
- Software Test Engineering Intern, Borland (2006)
- RETINA Research Project Intern, Bilkent University (2006)
- Software Test Engineering Intern – TRT Broadcast Archives (2005)

## SELECTED PROJECTS

- End-to-End Security for Service Oriented Architecture (Java, Linux platform)
- iPhone application for the National Ignition Facility (Objective-C, MAC OS/X platform)
- Mobile-Cloud collaborative traffic lights detector for Android phones (Java, Android platform)
- Focused Crawler for automatic web portal generation (C, Python, UNIX platform)
- Internet router simulation (C, Linux platform)
- Application layer messaging protocol implementation (Java)
- Shrinkage-based node classifier for social networks (Java, MAC OS/X platform)
- Distributed news server (C, UNIX platform)
- Role-based access control protocol for group communication systems (C, UNIX platform)
- Relational database management system design and implementation (C, Lex&Yacc, UNIX platform)
- Distributed group management protocol (C, UNIX platform)
- File system design and implementation (C, Linux platform)
- Soccer league and bet system database design and Web-based implementation (PHP, MySQL)
- A Napster-like peer-to-peer file sharing program (Java)
- An Ethereal-like network packet sniffer program (Java)

## TECHNICAL SKILLS

- **Programming:** Java, C, C++, Objective-C, SQL, PL/SQL, PHP, Matlab, Python, XML, HTML, TCP/IP
- **Operating Systems:** Windows NT/XP/Vista/7, Unix, Linux, MAC OS/X
- **Databases:** Oracle, MySQL

## FOREIGN LANGUAGES

English (Advanced), Turkish (Native), French (Intermediate), Italian (Basic), Spanish (Basic), Japanese (Beginner)

## ACTIVITIES

- Treasurer of Turkish Student Association at Purdue University, 2009
- Vice President of Turkish Student Association at Purdue University, 2008
- Member of Women In Computing Group at Purdue University, 2007
- Founding member - treasurer of United Nations Turkey Association Youth Section, 2006