

MEHMUD ABLIZ

331 Devonshire St, Apt. C5
Pittsburgh, PA 15213
phone: (412) 216-3705
email: mehmud@cs.pitt.edu
www.cs.pitt.edu/~mehmud

EDUCATION

Ph.D. Student in Computer Science , GPA: 3.6 <i>University of Pittsburgh, Pittsburgh, PA</i>	2005 - Present
B.S. in Computer Science , GPA: 3.7 <i>Jilin University, Changchun, China</i>	2004
B.E. in Applied Geophysics , GPA: 3.6 <i>Jilin University, Changchun, China</i>	2004

WORKING EXPERIENCE

University of Pittsburgh, Pittsburgh, PA <i>Graduate Student Researcher</i>	05/2008 - Present
Robert Bosch Research Center, Pittsburgh, PA <i>Software Research Intern</i>	05/2007 – 08/2007
Accenture Technology Solutions, Dalian, China <i>Software Engineer</i>	07/2004 - 06/2005

TEACHING EXPERIENCE

University of Pittsburgh, Pittsburgh, PA Teaching Fellow – for “ <i>Web Site Design & Development</i> ”	08/2007 - 05/2008
University of Pittsburgh, Pittsburgh, PA Teaching Assistant – for “ <i>Introduction to C & UNIX</i> ”, “ <i>Introduction to Personal Computers and The Internet</i> ”, “ <i>Palm OS Programming</i> ”, “ <i>Programming in Java</i> ”, and “ <i>Data Structure</i> ”.	08/2005 – 04/2007

PROJECT & RESEARCH EXPERIENCE

Distributed Architecture for Mitigating DDOS Attacks In this project, we take a clean-slate approach and argue for a separate security plane to detect and mitigate DDoS attacks. The decision logic of security mechanisms is distributed in a small set of active security guards called sentinels that collaborate (proactively and reactively) to mitigate attacks.	11/2006 – 03/2007
SecDB Decommissioning To replace SecDB (a financial database system) with new system smoothly, existing 700 applications that use SecDB must be redirected to use new database through API layer we developed. Role: Requirement analysis; Performing detailed design; Coding & Unit/assembly Testing; Software Configuration Management.	04/2005 – 06/2005
Develop COM wrapper for G API To let existing VBA applications that make direct calls to database to instead communicate with G services (financial service APIs), a COM layer is developed. Role: Finding solution for implementing overloading and multiple inheritances in COM; Coding;	07/2004 – 04/2005

Developing test drivers; Software Configuration Management.

Geophysics 2D Data Processing Software

05/2003 - 06/2004

A research project funded by Jilin University. Through combining the knowledge of geophysics with computer scientific visualization and software engineering techniques, conduct research on how to develop the data processing software which utilizes a new data processing technique, Depth Curves Method, in applied geophysics.

Role: In charge of the entire project.

PUBLICATION

- o "A Guided Tour Puzzle for Denial of Service Prevention." the Annual Computer Security Applications Conference (ACSAC) 2009, Honolulu, HI, Dec 2009.
- o "OPTWALL: A Traffic-Aware Hierarchical Firewall Optimization", In Proceedings of the Network & Distributed System Security Symposium, San Diego, CA, Feb 2007.
- o "A Visual Application Generator for the Chronobot", International Conference on Distributed Multimedia Systems, San Francisco, CA, Sep 2007

COMPUTER SKILLS

- o **Programming:** C, C++, JAVA, VB, Perl, Palm OS
- o **Operating System:** WINDOWS, LINUX/UNIX, MAC OS
- o **Computer Networks:** TCP/IP, Network Security, Firewall Optimization, Wireless & Sensor networks, NS2
- o **Web:** HTML/XML, CSS, JavaScript, PHP, MySQL, PostgreSQL, Apache, SOAP, MVC Architecture
- o **Software Process:** CMM, Rational ClearCase & ClearQuest, Software Testing
- o **Other:** MS COM, MS Office & VBA, SQL, DB Design, Identity Management Systems

AWARDS

Runner-up & "People's Choice" Poster Award , U. of Pittsburgh, Pittsburgh, PA	02/2007
"Core Value Award" , Accenture, China	2005
"Excellent Graduation Thesis" , Jilin University, China	2004
"Excellent Student Scholarship" , Jilin University, China	2002 - 2003
"Excellence in Foreign Language" , Jilin University, China	2002 - 2003
"Excellent Student Leader" , Jilin University, China	2001 - 2002
"Art Activity Scholarship" , Jilin University, China	2000 - 2001

LANGUAGES

- o **Uyghur** – native language.
- o **Chinese** – speak, read, and write as native Chinese speaker.
- o **English** – speak fluently, read, and write with high proficiency.

EXTRACURRICULAR ACTIVITIES

- o Member of Students Government of Geoexploration College, *Jilin University, China*
- o Founder and Leader of Guitar Fans Club of Chaoyang Campus, *Jilin University, China*
- o Member of Martial Arts Club, *Jilin University, China*

References are available on request.