BRYAN (DZUNG) TA

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Research Interests

- Software Engineering
- Software Security
- Internetwork Security

Education Background

- Ph.D. Student, Computer Science**,** University of Maryland, College Park, Fall 2010 – present
- B.S., Computer Science**,** Hanoi University of Technology, Vietnam, 2004 - 2009
  Graduated with Distinction, Overall GPA: 8.41/10, Rank: 1/36 (in class)

Awards and Honors

- *Dean's Fellowship*, Computer Science Department, University of Maryland, College Park (2010)
- *Vietnam Education Foundation (VEF) Fellowship* (2010)
- *Golden Globe*, awarded to the Vietnamese Information Technology Talent of the Year, Vietnam Ministry of Information and Communication (2009)
- *National Champion and National Representative in The 7th Imagine Cup World Finals* (www.imaginecup.com), Cairo, Egypt (2009)
- *National Champion and National Representative in The 6th Imagine Cup World Final*s, Paris, France (2008)
- *Presidential Award* from Hanoi University of Technology for achievement in scientific research (2008 - 2009)
- *Digital Signal Processing Scholarship* from Vietnam Education Foundation (VEF) and the Nation Science Foundation (NSF-USA) (2008)
- *Scholarships from Ministry of Education and Training* for academic excellence (2001-2009)
- *Third Prize* in Vietnam National Informatics Olympiad for high-school students hosted by Education and Training ministry (2004)

Publications

- Quynh Pham Thi, **Dung Ta Quang**, Thang Huynh Quyet, "A Complexity Measure for Web Service", *In Proceedings of 1st International Conference on Knowledge and Systems Engineering - KSE 2009,* Hanoi, October 13-17, 2009.
- Quynh Pham Thi, **Dung Ta Quang**, Thang Huynh Quyet, "Measuring Service Reusability", *In The Chinese Information Technology Journal, China*, January 2010.

Research Assistant Experience

Metrics for Web Service and Service Oriented Architecture (SOA), 2009

- Researching on Reusability and Complexity metrics in OOP, CBS; existing metrics for SOA software and Web Service
- Proposing metrics and building a toolkit based on the metrics to calculate the Reusability and Complexity of SOA software
- Comparing the results with the results obtained with existing metrics

Brain-Machine Interface (BMI), 2009

- Researching on BMI
- Working with other teammates (major in Biomedical Electronic) to design a simple hat-shaped hardware device, using EEG structure, to enable people to control other peripheral devices by using basic thoughts and eyes movements
- Designing communication interfaces (COM port, wireless board, GSM) to connect the "hat" with computer
- Applying DSP, AI, Machine Learning, Data Mining to build software which can process brain-signals and detect eye blink, wink, sleep and drowsiness.

The Automatic System of Classifying Solid Garbage, 2008

- Working with two teammates (major in automation and mechanics) to design an automatic machine to classify solid garbage
- Designing communication interfaces (COM port, wireless board, GSM) to connect the machine with computer
- Building software to control the machine
- Building software to manage the system

Working Experience

Security Application Specialist

BKIS – Bach Khoa Internetwork Security Center, Vietnam, 2005 - 2008

- Researched on Web Application Security and Internetwork Security and System Management
- Debugged and analyzed program source code.
- Detected, analyzed and prevented malicious code, attacks, Stack overflow and Heap overflow.
- Deployed and managed: Intrusion Detection System (Snort), Network Monitoring System (HoneyPot, OSSIM), Firewall on Linux and Windows (IPTable, URLScan)
- Protected network system against unauthorized access for other companies and organizations by contract
- Wrote bulletins on Internetwork Security

Teaching Experience

- Object Oriented Programming II (CMSC132), University of Maryland, College Park [S'2011, F'2010]

Creative Activities

Team Leader

- MiMas Team, Hanoi University of Technology, 2009

  Imagine Cup 2009 World Finals, Cairo, Egypt

  Built and managed a team of 4 students from Mechanics, Biomedicine, Computer Science
  Wrote proposals, analyzed and designed the Brain-Machine Device
  Coded brain-signal processing, communication and GUI modules
  Raised funds of $4000 from sponsors
  Presented and answered questions from judges at national and international rounds.

  Achievement: *National champion*

- BK – MILESTONE Team**,** Hanoi University of Technology, 2008

  Imagine Cup 2008 World Finals, Paris, France

  Achievement: National champion

Microsoft Student Partner, Microsoft Vietnam, 2008

Propagated and taught Microsoft's technologies for students community
Wrote bulletins on Microsoft technologies

Technical Staff, Asia-Pacific Economic Cooperation Summit (APEC), Vietnam, 2008

Monitored and handled virus outbreak and internetwork attacks

Programming Language

C/C++, JaVa, C#, Matlab.