Pham Dinh Nguyen

aphamdn@gmail.com • https://ngpham.github.io

Education

University of Houston *Sep 2014 – Sep 2019 (Expected)*
PhD in Computer Science, GPA: 4.0/4.0
University of The Philippines Diliman *Oct 2010 – Oct 2013*
MS in Computer Science, GPA: 3.7/4.0
HCM City University of Technology *Sep 1999 – Sep 2004*
Engineer Diploma in Electrical and Information Technology

Higher Education Experience

University of Houston *Sep 2014 – Present*
Teaching Assistant

- Courses: Computer Organization. Algorithms and Data Structure, Artificial Intelligence, Machine Learning.
- Prepared and instructed students on two course projects (prune search, reinforcement learning).

Research Assistant

- DHS SenseNet sub project on aerosol detection: supervised by Dr. Eick, investigated Gaussian Mixture model for biochemical threat detection from low-cost sensors measurements.
- NSF BigData Grant on distributed algorithms for large-scale graph problems: supervised by Dr. Pandurangan, investigated network cascading influence model.

Skills and Interests

Programming: Scala, Java, C++, C, Python, PHP, JavaScript. Past experience: Web development with Java EE 6, Yii, Zend. Tools (course/research): hadoop, spark.
Interests: concurrency and distributed computing (personal projects https://github.com/ngpham), distributed algorithms, asynchronous protocols, data mining (graph influence), approximation algorithms. Others: functional programming, parsing, Haskell, Coq.

Industrial Experience

Lazada Vietnam *Feb 2014 – Aug 2014*
PHP Tech Lead

- Developed Lazada e-commerce websites for SEA countries.
- Tech Lead on Search/Filter.
- Technologies: Yii, Zend, jQuery, ExtJS, MySQL, Solr, Mem- cache, Redis, RabbitMQ.

TMA Solutions Vietnam *Jan 2005 – Oct 2010*
Consultant

- Onsite Engineer at Avaya (Nortel) R & D Facility in Galway, Ireland.
- Supervise training for offshore team of over forty members.

Publications

Soumyottam Chatterjee, Reza Fathi, Gopal Pandurangan, Nguyen Dinh Pham. *Fast and Efficient Distributed Computation of Hamiltonian Cycles in Random Graphs.* 38th IEEE International Conference on Distributed Computing Systems, ICDCS 2018, Vienna, Austria, July 2-6, 2018.

Maleq Khan, Gopal Pandurangan, Nguyen Dinh Pham, Anil Vullikanti, Qin Zhang. *Improved Probabilistic Guarantees for Influence Maximization.* (Submitted for review)