

Pham Dinh Nguyen
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Education

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

Higher Education Experience

University of Houston <i>Teaching Assistant</i> <ul style="list-style-type: none">• Courses: Computer Organization. Algorithms and Data Structure, Artificial Intelligence, Machine Learning.• Prepared and instructed students on two course projects (prune search, reinforcement learning).	<i>Sep 2014 – Present</i>
<i>Research Assistant</i> <ul style="list-style-type: none">• 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

Splice Machine <i>Software Engineer Intern</i> <ul style="list-style-type: none">• Worked on Database development team (ACID SQL over Hadoop).• Implemented SQL features, fixed blocking issues on external tables operation.• Improved external tables operation using TPC benchmarks.	<i>May 2019 – Aug 2019</i>
Lazada <i>PHP Tech Lead</i> <ul style="list-style-type: none">• Developed Lazada e-commerce websites for SEA countries.• Tech Lead on Search/Filter.• Technologies: Yii, Zend, jQuery, ExtJS, MySQL, Solr, Memcached, Redis, RabbitMQ.	<i>Feb 2014 – Aug 2014</i>
TMA Solutions <i>Consultant</i> <ul style="list-style-type: none">• Onsite Engineer at Avaya (Nortel) R & D Facility in Galway, Ireland. Telecom systems and software integration, performance tests.• Supervise training for offshore team of over forty members.	<i>Jan 2005 – Oct 2010</i>

Publications

Maleq Khan, Gopal Pandurangan, Nguyen Dinh Pham, Anil Vullikanti, Qin Zhang. *Improved Probabilistic Guarantees for Influence Maximization*. To appear in SIAM Symposium on Algorithm Engineering and Experiments (ALENEX20).

Soumyottam Chatterjee, Gopal Pandurangan, Nguyen Dinh Pham. *Distributed MST: A Smoothed Analysis*. To appear in International Conference on Distributed Computing and Networking (ICDCN 2020).

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.