VY THAO NGUYEN

oontvoo@hotmail.com
http://www.cs.umb.edu/~vngu0510

EMPLOYMENTS:

- **Back-end Intern** at Akiban Technologies (October 2011 – present)

Responsibilities:
+ design and implement the types/functions system for Akiban-Server.
+ design and implement the framework for supporting Explain Plans in the server
+ extend / improve the SQL parser (written in Java & JavaCC)
+ Develop tests (unit / system tests)
+ Improve / create Jenkins jobs to automate testing/packaging/releasing processes, making use of both local machines, and Amazon ec2 instances along with other S3 services.

- **Undergraduate Researcher** at UMass Boston (Summer 2012)

Responsibility: Customize/Apply the Kalman Filter algorithm to the Indoor Localization project lead by UMass Boston's NisLab (Details are here!)

- **Intern/Visiting Student** at Glasgow Caledonian University (Summer-2011)

Responsibility: Improve source-parsing/generating aspect of Pattern Coder, a plugin for the BlueJ IDE plugin.

- **Learning Community Mentor** (February 2010 – December 2010)
(Employer: Learning Community office of Bunker Hill Community College)

- **FSG Facilitator** (February 2010 – May 2010)
(Employer: UMLSAMP - STEM Coordinator)[1]

- **Maths and Sciences Tutor** (February 2010 – May 2011)
(Employer: TASC[2] *of Bunker Hill Community College)*

SKILLS / ABILITIES:

- Design/Implement algorithms to solve complex problems
- Java/JavaCC, C/C++ , Scheme
- Scripting (Shell/Bash/Windows Batch, Python (notation only))
- Miscellaneous: efficient in various technologies (Git, Bazzar, Maven, Jenkins (AKA. Hudson), etc)
- Languages: -**Vietnamese** *(Native)*
  - **English** *(Second Language)*
  - **French** *(Intermediate)*

EDUCATION: **Present, Pursing a B.S in Computer Science**
University of Massachusetts, Boston 2013
Current GPA: 3.945/4.000

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1   Urban Massachusetts Louis Stokes Alliance for Minority Participation (UMLSAMP) - Science, Technology, Engineering and Mathematics (STEM)
2   Tutoring and Academic Support Center

Major courses taken included:
- C++ Programming (Including but not limited to C++/CLI, MFC)
- Java Programming (Including but not limited to MySQL, JApplet, JServet with Tomcat, J2ME)
- JavaCC/Compiler
- Structure of Higher Languages / Functional Programming
- Operating System
- Advanced Algorithm
- Computer's Architectures
- Theory of Computations
- Pascal Programming
- Mathematics

(Algebra, Geometry, Calculus, Statistic, Intro to Number Theory, Differential Equations, Discrete Maths, Linear Algebra, Logics)
- Physics

(Astrophysics, Atomic Physics, Optical Physics Particle Physics, Quantum Physics, Thermodynamics)
- Chemistry *(General Chemistry, Organic Chemistry)*
- Biology *(Intro to Genetics, Evolution or Evolutionary Biology, Environmental Biology)*

HONORS / AWARDS /ACTIVITIES:

- Winner of the Umass-Boston Merit-based scholarship (Fall-2012)
- Being one of the three team members in the Umass-Beacon team taking part in the [Boston Preliminary Programming Contest at MIT](). We ranked 8/19- after 3 teams from MIT, 2 teams from Harvard, 1 team from Tuft and 1 team from Wellesley (Fall-2012)
- Winner of scholarship by the **National Science Foundation**.
   (see http://batec.org/international-programs)(Summer 2011)
- Member of the Phi Theta Kappa Honor Society (2010 – present)
- Award in the Speed-Dial Backgrounds for Opera Browser Contest *(2009)*
- Awards in the Advanced Mathematics Contests for High School and Middle School Students *(2005-2009)*