VY THAO NGUYEN

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EMPLOYMENTS:

- **Software Engineer 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).

+ Support automatic full text index population and maintenance in the server.

+ Develop 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 at https://launchpad.net/kalmanfilterimpl)

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

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

- **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]

- **Mathematics 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)
- Miscellaneous: proficient in various technologies (Git, Bazaar, Maven, Ant, Jenkins (AKA. Hudson), MySQL)
- Languages: -Vietnamese *(Native)*
  - English *(Second Language)*
  - French *(Intermediate)*

EDUCATION: **Present, Pursuing a B.S in Computer Science**
University of Massachusetts, Boston 2013
Current GPA: 3.93/4.00

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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 include:
- 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 Algorithms
- Computer Architecture and Organization
- Theory of Computation
- Pascal Programming
- Mathematics *(Algebra, Geometry, Advanced Calculus, Statistics, Intro to Number Theory, Differential Equations, Discrete Mathematics, Linear Algebra, Logics)*
- Physics *(Astrophysics, Atomic Physics, Optical Physics Particle Physics, Quantum Physics, Thermodynamics)*
- Chemistry *(General Chemistry, Organic Chemistry)*
- Biology *(Intro to Genetics, Evolution/ Evolutionary Biology, Environmental Biology)*

HONORS / AWARDS /ACTIVITIES:

- Winner of the UMass-Boston Distinction Honor (Spring-2012)
- Winner of William I Miller Award for graduate with best academic performance (Spring-2013)
- Winner of the UMass-Boston Merit-based scholarship (Fall-2012)
- Representing UMass-Boston taking part in the [Boston Preliminary Programming Contest at MIT](#) (Fall 2012)
- Winner of scholarship by the **[National Science Foundation](#)**. **(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)*