

VY THAO NGUYEN

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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: TASC² 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), 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: 3.931/4.000

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, Advanced 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)
- 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)