

Nam H. Pham

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OBJECTIVE

To obtain software developer position that will enable me to use my strong analytical and problem solving skills, solid educational background, and ability to work well with people

EDUCATION

Iowa State University of Technology and Science

Master of Science, CPR E: Computer Engineering

GPA: 3.92/4.0

Ames, Iowa

Aug, 2007-May,2010

Hanoi University of Technology

Bachelor of Science, S E: Software Engineering

GPA: 3.69/4.0

Hanoi, Vietnam

Sep 2002 - July 2007

PROFESSIONAL EXPERIENCE

Computer and Electrical Engineering Dept

Iowa State University, Ames, Iowa

Graduate Research Assistant

Aug 2007 – Present

- Detected software vulnerabilities occurring in different software systems. ICSE 2010, ASE 2010.
- Detected similar graph-based components (clones) in Simulink models. ICSE 2009.
- Mined API usage patterns in object oriented programming. ACM SIGSOFT Distinguished Paper.

Software Engineering Research Lab

Hanoi University of Technology, Vietnam

Undergraduate Research Assistant

Sep 2005 – June 2007

- Classified text documents into correct categories using the K-nearest neighbor algorithm and ternary search tree data structure.
- Measured the dependability of fault-tolerant systems via a hidden Markov model-based approach.

BachKhoa Internetwork Security Center

1st Daicoviet street, Hanoi, Vietnam

Software Development Engineer

Sep 2003 - June 2005

- Created multi-table queries to display and synchronize information in databases in the content management system (eOffice).
- Designed the interface of the instant messaging tool in eOffice.

PROFESSIONAL SKILLS

Programming languages/technologies:

- Java, C/C++, Visual Basic, UNIX Shell script, Pascal, Assembly,
- SQL, HTML, JavaScript, XML, CSS.

Management systems:

- Microsoft SQL Server, MySQL Server, Version control systems, Bug-tracking systems.

Development tools:

- Microsoft Visual Studio .NET, Microsoft Visual C++ 6.0, Eclipse, Matlab,
- Adobe Dreamweaver, Adobe Photoshop and Adobe Illustrator.

Operating systems:

- Windows XP, Windows Vista, Windows 7, Redhat.

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HONORS & AWARDS

- ACM SIGSOFT Distinguished Paper Award, ESEC/FSE 2009.
- ACM SIGSOFT CAPS Award, 2009.
- Iowa State University Professional Development Grants, 2009.
- Tuition Scholarship & Graduate Assistantship, Iowa State University, 2007-2009.
- Outstanding Student Award, Hanoi University of Technology 2006.
- Fujitsu Student Scholarship, Fujitsu Vietnam Ltd, 2005-2006.
- Academic Scholarships, Hanoi University of Technology, 2002-2006.
- VITEC's Fundamental Information Technology Engineer Skill Standards Certification, 2005.
- Consolation prizes for programming contest at Hanoi University of Technology, 2002-2004.
- Third prize for programming contest at High school for Gifted Students 2000-2001.

SELECTED PULICATIONS

- Nam H. Pham, Tung Thanh Nguyen, Hoan Anh Nguyen, and Tien N. Nguyen, Detection of Recurring Software Vulnerabilities. To appear in the 25nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2010). Acceptance rate 17.8%.
- Nam H. Pham, Tung Thanh Nguyen, Hoan Anh Nguyen, Xinying Wang, Anh Tuan Nguyen, Tien N. Nguyen. Detecting Recurring and Similar Software Vulnerabilities. In Proceedings of the 32nd ACM/IEEE International Conference on Software Engineering (ICSE 2010). Short paper.
- Nam H. Pham, Hoan Anh Nguyen, Tung Thanh Nguyen, Jafar M. Al-Kofahi and Tien N. Nguyen. Complete and Accurate Clone Detection in Graph-based Models. In Proceedings of the 31st ACM/IEEE International Conference on Software Engineering (ICSE 2009).Acceptance rate: 12.3%
- Tung Thanh Nguyen, Hoan Anh Nguyen, Nam H. Pham, Jafar M. Al-Kofahi and Tien N. Nguyen. Graph-based Mining of Multiple Object Usage Patterns. The 2009 ACM SIGSOFT Conference on the Foundations of Software Engineering (ESEC/FSE 2009). Acceptance rate: 14.7%. ACM SIGSOFT Distinguished Paper Award.

ACTIVITIES

- Student volunteer in the 31st ACM/IEEE International Conference on Software Engineering, Vancouver, Canada 2009.

Member of

- Iowa State University Student Chapter IEEE.
- Association for Computer Machinery (ACM).
- Special Interest Group On Software Engineering (ACM SIGSOFT).