Huy Quang Duong

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Summary

Experienced software developer and researcher with 15+ years of experience, including 10+ years in industry and 5 years in academia, working on developing business and scientific solutions based on cutting-edge technologies and advance algorithms. Demonstrated skillful with C#, C++, Java, Python, and Matlab with traced records of innovative breakthrough scientific publications.

Education

Ph.D. in Computer Science, NTNU, Norway	Mar 2017 - 2020
M.Sc. in Computer Science, Hunan University, China	Sep 2014 - Nov 2016
B.S. in Computer Science, Hanoi University of Technology, Vietnam	Sep 1999 - Jun 2004

Work Experience

Research Fellow, Department of Computer Science, NTNU, Norway.   **2017 – Present**

– My research focuses on developing solutions for a wide-range of big data streaming applications, e.g., classification, change defection, fraud detection, network attack detection and event detection. Selected research outcomes include:

P1. Developed a novel method to optimize memory usage in mining high profit product groups, reduced memory usage 6 times and sped up the mining process 10 times.

P2. Develop a model for sketching a streaming data of locations which can quickly adapt to the user activity behaviors changes and outperforms other methods by 4% more accurate and 12 times less error in classification task. This work was presented ACM CIKM, a top-tie conference in information retrieval and knowledge management.

P3. Developed novel algorithm for multiple dense subtensors detection, improved accuracy on density two million times and sped up detection 6.9 times. This work was presented in IEEE ICDE, a top-tie conference in Data Engineer and Data-intensity system.

– Techniques: Java, MatLab, Python.

Senior Software Engineer, MB Bank, Vietnam   **2013 – 2014**

– Developed enterprise applications (HR) and business processing management (BPM) (appraisal process, loan process) using software-AG product, Process Maker, service monitoring tool. Advised and fixed vulnerabilities and flaws of applications and systems.
– Platform & Techniques: Web Applications & Windows Services. Software-AG, SQL-Server, .NET, C#.

Solution Architect, Team Leader, VTCMobile, Vietnam   **2011 – 2013**

– Built Back-End framework, designed and constructed MongoDB system (servers, slaves, log, shading & replicaset) services for applications and games on mobile platform. Analyzed, designed databases and developed backends, restful services using C#, .NET, SQL-Server, NoSQL-MongoDB, OAuth.

Researcher, CDIT, Vietnam   **2006 – 2011**

– Designed solutions and developed applications for Vietnam Post, used in all post offices in all cities and provinces: Telecommunications service management, money transfer service management, parcel and package management, auto-update application.
– Platform & Techniques: Window & Web Based Applications, .NET, C#, SQL-Server, Oracle.

At the same time, I held the position as outsource software engineer for Vingroup, Vietnam.

– Built HR system, Booking online, Member Management System, Real Estate Management.
– Platform: Window & Web Based Applications, C#, .NET, DevExpress, SQL-Server.

Software Engineer, Vinacomm, Vietnam (VCCorp)   2004 – 2006

– Built content management system, news and financial (stock) service applications. Built indicator, candle, pattern recognition and rebuilt system with new technology, C#, .NET, MemCache, NoSQL-Redis.

Honors and Awards

1. **National award in Mathematics**, competition for every high school student   1999

2. **Prospective Employee of the Year** Award, MBBank (∼6.9K employees)   2014

3. **Selected for Best Papers** of the Industrial Conference on Data Mining Conference   2016

Skills

– **Programming**: C#, ASP.NET, Java, C++, Matlab, Python, Javascript (JQuery), RDBMS (SQL Server, Oracle, MySQL), NoSQL (MongoDB, Redis).

– **Data Science**: Data Mining (MOA), Machine Learning (scikit-learn, Keras, PyTorch, TensorFlow), SQL (SQL Server, Oracle, MySQL), Pandas, Numpy, Scipy, Matplotlib, Git.

– **Tools**: Visual Studio, Eclipse, RStudio, Jira, Mantis Bug Tracker, Mind Manager, Ext.Net, DevExpress, PyCharm, CodeSmith Generator.

Publications

– 14 peer-reviewed scientific articles.

Languages

Vietnamese (native), English (fluent), Norwegian (Level 2 at NTNU ∼ B1/B2 CEFR), Chinese (basic).