Huy Quang Duong

Source Code	https://bitbucket.org/duonghuy	Phone	+4798420887
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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.

Work Experience

Stingray Marine Solutions AS   Oslo, Norway
Senior Software Developer   2020 - Present

– Navigator Backend and Command Gateway for routing commands communicated between nodes and endpoints.
– Techniques: .Net Core, Rest Api, MongoDb, OAuth2, Microservices, Message Queue, CQRS, Event Sourcing.

Department of Computer Science, NTNU   Trondheim, Norway
Research Fellow   Mar 2017 - Nov 2020

– Developed solutions and theoretical foundations for event detection (changes, anomalies, fraud and network attack), novel algorithm for multiple dense subtensor and subgraph detection, improved accuracy on density two million times and 6.9 times faster, presented in IEEE ICDE 2020, accepted directly $\sim$ 3%.
– Techniques: Java, MatLab, Python.

Military Bank   Hanoi, Vietnam
Senior Software Engineer   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#.

VTCMobile   Hanoi, Vietnam
Solution Architect, Team Leader   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.

CDIT, Center for Development of Information Technology   Hanoi, Vietnam
Researcher   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 (2006-2010).

– Built HR system, Booking online, Member Management System, Real Estate Management.

– Platform: Window & Web Based Applications, C#, .NET, DevExpress, SQL-Server.

Vinacomm (VCCorp)   **Hanoi, Vietnam**
Software Engineer   **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. **Potential Employee of the Year** Award, MBBank ($\sim$6.9K employees)   **2014**

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

Education

Norwegian University of Science and Technology, NTNU   **Trondheim, Norway**
Ph.D. in Computer Science   **2017 - 2020**

Hunan University   **Hunan, China**
M.Sc. in Computer Science   **2014 - 2016**

Hanoi University of Technology   **Hanoi, Vietnam**
B.S. in Computer Science   **1999 - 2004**

Skills

Programming	C#, .NetCore, Java, C++, Matlab, Python, Javascript, SQL (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 (+Code), Eclipse, RStudio, Jira, Mantis Bug Tracker, Docker, Mind Manager, Ext.Net, DevExpress, PyCharm, CodeSmith Generator.

Publications

– 16 peer-reviewed scientific articles.

Languages

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