

# Huy Quang Duong

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## Summary

Experienced software developer and researcher with **20+ years** of experience, including **15+ 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#, Java, React, Python, Javascript, C++, and Matlab with traced records of innovative breakthrough scientific publications, **16 publications** and around **630 citations**.

## Work Experience

**Elhub AS - Statnett, Oslo, Norway - Senior Advisor** Jun 2022 - Present

- Applications for market parties in energy in Nordic countries to test, integrate messages and data management

**Stingray Marine Solutions AS, Oslo, Norway - Senior Software Developer** Dec 2020 - May 2022

- Navigator Backend, Command Gateway, Simulator, Frontend for routing commands between nodes and users.
- **Rest Api, Service, NetCore, MongoDB, OAuth2, Message Queue, React+Redux+Typescript, Razor, SignalR.**

**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. For more details, please check Google Scholar page. Use 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. Use web & 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 back-ends, restful services using **C#, .NET, SQL-Server, NoSQL-MongoDB, OAuth2.**

**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. Use windows & web based applications, **.NET, C#, SQL-Server, Oracle.**

*At the same time, I held a position as outsource software engineer at Vingroup, Vietnam (2006-2010). Built HR system, Booking online, Member Management System, Real Estate Management.*

**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, SQL-Server, MemCache, NoSQL-Redis.**

## Honors and Awards

<b>National award in Mathematics</b>	<i>For senior high school students</i>	<b>1999</b>
<b>Potential Employee of the Year Award</b>	<i>MBBank (~6.9K employees)</i>	<b>2014</b>
<b>Selected for Best Papers</b>	<i>The Industrial Conference on Data Mining Conference</i>	<b>2016</b>

## Education

<b>Ph.D. in Computer Science</b>	<i>NTNU, Trondheim, Norway</i>	<b>2017 - 2020</b>
<b>M.Sc. in Computer Science</b>	<i>Hunan University, China</i>	<b>2014 - 2016</b>
<b>B.S. in Computer Science</b>	<i>Hanoi University of Technology, Vietnam</i>	<b>1999 - 2004</b>

## Skills

**Programming:** C#, .NetCore, Java, C++, Matlab, Python, JavaScript, React + Redux, TypeScript, SQL/ NoSQL.

**Data Science:** Data Mining (MOA), Machine Learning (Scikit-learn, Keras, PyTorch, TensorFlow), SQL DB (SQL Server, Oracle, MySQL), NoSQL DB (MongoDB, Redis), Pandas, Numpy, Scipy, Matplotlib, Git.

**Tools:** Visual Studio (+Code), Eclipse, RStudio, Jira, Mantis Bug Tracker, Docker, Mind Manager, Ext.Net, DevExpress, PyCharm, CodeSmith Generator.

## Languages

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