Huy Quang Duong

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Summary

Experienced software engineer and Ph.D. in Computer Science (NTNU) with **21+ years** of experience, including **16+ years** in industry and **5+ years** in academia. Proven ability to develop business-critical and scientific solutions using cutting-edge technologies and advanced algorithms. Proficient in C#, Java, React, Python, JavaScript, and experienced with SQL Server, Oracle, MongoDB, OAuth2, and Messaging Queues. Recognized for impactful scientific contributions with **16 peer-reviewed publications** and over **696 citations**.

Education

1. **Ph.D. in Computer Science**   *NTNU, Trondheim, Norway*   **2017 - 2020**

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

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

Side project

1. **Real Estate System with AI** - *Founder*   **https://www.looking.no**

   - Founder of https://www.looking.no, an AI-powered real estate analytics platform analyzing property ads and images for sentiment, floor plans, and price comparison.
   - Used **React Frontend, Python Backend, and Postgres Database + Websocket + Image & Text analysis and AI.**

Work Experience

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

   - Test system in energy sector in Nordic countries (Norway & Sweden) to test, integrate messages when communicate with each other. Besides main responsibility of developing the system, I led performance optimization and security hardening, improved system performance by **100x**. Implemented multi-factor authentication, Set up Grafana dashboards and metrics. Migrated systems from On-prem to OCI cloud, etc.
   - Use **SQL-Server, C#. Grafana, NServiceBus, Kotlin (Ktor), Micro services**.

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

   - I was responsible for the following systems: Navigator Backend, Command Gateway, Simulator, Favorite Scheduler, Frontend for routing commands between nodes and users, control the power.
   - Used tech stacks: **RestApi, NetCore, C#, MongoDb, OAuth2, Message Queue, React+Redux+Typescript, Razor, SignalR, AWS**.

3. **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.

4. **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#**.

5. **VTCMobile, Hanoi, Vietnam** - *Solution Architect, Team Leader*   **2011 - 2013**

   - Built Back-End framework, designed and constructed MongoDB system (servers, slaves, log, sharding & 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**.

6. **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.

7. **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, using **C#, .NET, SQL-Server, MemCache, NoSQL-Redis**.

Honors and Awards

1.	**National award in Mathematics**	*For senior high school students*	**1999**
2.	**Potential Employee of the Year** Award	*MBBank (∼6.9K employees)*	**2014**
3.	**Selected for Best Papers**	*The Industrial Conference on Data Mining Conference*	**2016**
4.	**SIGIR Conference Travel Grant**	*The Conference on Information and Knowledge Management (CIKM)*	**2019**
5.	**Security Rewards**	*Leak PII at bugs.chromium.org (Google) . . .*	**2023**

Skills

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

2. **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.

3. **Tools:** VS Studio(+Code), Eclipse, Bug Tracker, Docker, Mind Manager, Ext.Net, DevExpress, PyCharm, CodeSmith, Teamcity, Grafana.

Languages

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