

Duy Nguyen

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SUMMARY

- Intensive knowledge about algorithms and data structures
- Good understanding of database systems, distributed systems and network programming

EDUCATION

- **The High School for Gifted Students** 2010 – 2012
 - *Focused on Programming, Algorithm and Data structures*
- **University of Engineering and Technology, VNU Hanoi** 2013 – 2017
 - *Bachelor of Computer Science; GPA: 3.36/4.0*
 - Thesis graduation: Sentiment analysis for Vietnamese language
 - My thesis focused on how I clean, transform and model data, to help the algorithms understand data better and give better result
 - I applied some state-of-the-art techniques such as Deep learning (RNNs and LSTM) and Machine learning (Support Vector Machines)
- **Self-learning courses**
 - CMU - Database systems – <https://15445.courses.cs.cmu.edu/>
 - Princeton University - Distributed System – <https://www.cs.princeton.edu/courses/archive/fall16/cos418>

ACHIEVEMENTS & AWARDS

- **Second prize in Vietnam National Olympiad in Informatics** 2012
 - Competed individually to solve 6 algorithmic problems using Pascal
 - Ranked 9th amongst thousands of contestants

EXPERIENCE

- **Worldquant LLC** Aug 2018 Feb 2020
 - *Software Engineer*
 - Implemented a web-based interface to provide a better way to create an ETL configuration of datasets for the Business Analyst team. This helps the BAs to build the configuration for only 4 weeks instead of per dataset instead of months doing analyst and testing the configuration
 - Maintained custom fork of Spark data sources for internal usage
 - Implemented a tool which flattens raw data, even if the schema is extremely complex using Spark
 - Implemented a new transformation tool using Spark which converts raw data to an internal data format which is much faster. It also reduces lots of manual work of my team
 - Frameworks/Tools: **Facebook Thrift, Spark, ReactJS, Mobx, Protobuf**
 - Languages: **Python, Scala, Javascript, C++**
- **Worldquant LLC** Aug 2017 Jul 2018
 - *Web Developer*
 - Maintained and improved internal applications, which help Researchers and Portfolio Managers manage their tasks, strategies, and alphas easily
 - One of the internal webs can serve a few hundred heavy-computing requests per second
 - Wrote an ORM-like layer which converts JSON parameters to SQL query
 - Frameworks/Tools: **Apache HTTP Server, MySQL, ReactJS**
 - Languages: **Perl, Javascript**

SKILLS

- Languages: **Python, Perl, C++, Javascript**
- Libraries and Tools: **MySQL, ReactJS, Mobx, Thrift, Protobuf**