

# Duy Nguyen

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## SUMMARY

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- Good knowledge about algorithms and data structures
- Interested in database management systems

## EDUCATION

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- **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 cleaning and transforming 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/fall2017/>
  - Princeton University - Distributed System – <https://www.cs.princeton.edu/courses/archive/fall16/cos418>

## ACHIEVEMENTS & AWARDS

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- **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

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- **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

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