

Duy Nguyen

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SUMMARY

- Software engineer with good knowledge about algorithms, data structures and database systems
- Able to understand different views very quickly and apply them to real-world problems
- Determine to be a world class software engineer in near future

EXPERIENCE

- **Worldquant LLC** Aug 2018 – Present
Software Engineer
 - Implementing a web-based interface to provide a better way to create ETL configuration of datasets for Business Analyst team. This helps the BAs to build the configuration for only 3-5 days per dataset instead of weeks doing analyst and testing the configuration
 - Took care of all the RPC calls between components of the prototype of next-gen data infrastructure
 - Implemented new transformation tool using Spark which convert raw data to internal 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 is able to serve few hundred API heavy-computing requests per second
 - Wrote an ORM-like layer which converts JSON parameters to SQL query
 - Implemented an in-house survey system based on LimeSurvey
 - Frameworks/Tools: **Apache HTTP Server, MySQL, ReactJS**
 - Languages: **Perl, Javascript**

ACHIEVEMENTS & AWARDS

- **Ranked 9th in Vietnam National Olympiad in Informatics** 2012
 - Competed individually to solve 6 algorithmic problems using Pascal

EDUCATION

- **The High School for Gifted Students** 2010 – 2012
Focus on Programming, Algorithm and Data structures
- **University of Engineering and Technology, VNU Hanoi** 2013 – 2017
Bachelor of Computer Science; GPA: 3.36/4.0
- **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>

SKILLS

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