Duy Nguyen

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SUMMARY

- Good knowledge about algorithms and data structures
- Research interests: database management systems, data storage, distributed systems

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 the Vietnamese language
  - Cleaned and transformed data to help the algorithms understand data better and give better result
  - 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

- **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**