(Mr.) Van Quoc Mai

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**SUMMARY**

At present, I am a **BI Consultant** with ~1-year experience about Pentaho, Informatica , Big Data (Hadoop). I also have experience about Data Science. I got the [**Data Science Specialization**](https://www.coursera.org/specializations/jhu-data-science) certificate (using R language) of JHU in **Coursera**. I have experience about Machine Learning with Python language (scikit-learn) and R language.

An **Embedded Engineer** with ~3-year experience in maintenance life-cycle in embedded software development. I am familiar with C/C++, Java programming on Linux platform.

An **Android Developer** with 2-year experience in porting 3D game in Android phones.

**CAREER OBJECTIVE**

I will become a **Big** **Data Scientist/Machine Learning** expert.

The Plan of Attack:

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| **Course** | **Status** |
| [Data Science Specialization](https://www.coursera.org/specializations/jhu-data-science) | 100% complete |
| [Big Data Specialization](https://www.coursera.org/specializations/big-data) | Review |
| [Machine Learning Specialization](https://www.coursera.org/specializations/machine-learning) | Review |
| [Data Mining Specialization](https://www.coursera.org/specializations/data-mining) | Review |
| [Neural Networks for Machine Learning](https://www.coursera.org/learn/neural-networks) | Not started yet |
| [Machine Learning](https://www.coursera.org/learn/machine-learning) | Review |
| [Python for Everybody Specialization](https://www.coursera.org/specializations/python) | Review |
| [Introduction to Natural Language Processing](https://www.coursera.org/learn/natural-language-processing) | Review |
| [Applied Social Network Analysis](https://www.coursera.org/learn/python-social-network-analysis) | Not started yet |

**CAREER HISTORY AND EXPERIENCE**

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| **April 2016 – Present** | ***Researching about BI Tools*** |
|  | **BI Consultant**  **Global Cybersoft**  **Responsibilities**:   * Researching about **Pentaho** tool   + Using Pentaho Data Integration to design ETL.   + Using Pentaho Schema Workbench and  Pentaho Metadata Editor to create data sources.   + Using CTools to design dashboard, interactive reports, analysis reports   + Grant data access: metadata security, schema security * Researching about **Informatica** tool (to ETL data) * Setting up Big Data Ecosystem (Hadoop) * Using SAP BO Design Studio SDK to develop the components.   **Achievements:**   * Experiment about Pentaho, Informatica tools. * Experiment about MongoDB, PostgreSQL, MySQL. * Knowledge about Big Data Ecosystem: Hadoop, Hive, HBase, Spark. * Experiment about JavaScript, D3 library, CSS |
| **Aug 2012 – Mar 2016** | ***Maintain Embedded System*** |
|  | **Embedded Engineer**  **Global Cybersoft JSC**  **Responsibilities**:   * Inspect and fix the reported bugs (deadlock, crash, memory leak). * Review the source code (C/C++, Java).   **Achievements:**   * Familiar with C/C++, Java programming on Linux. * Good knowledge in concurrency, network-programming using POSIX (Thread/Process, IPC). * Using GDB under Linux environment. * Experiment about deadlock, memory leak, crash in system. * Good in analyzing and understanding the source code. |
| **Oct 2010 – Aug 2012** | ***Porting 3D game for Android platform*** |
|  | **Android Developer**  **Gameloft**  **Responsibilities**:   * Porting 3D games (Asphalt 5, 6; Hero of Sparta; …) for other Android phones * Investigate the issues and fix bugs   **Technologies used**:   * OpenGL knowledge. * Get familiar with new code quickly. Familiar with UI. * Use Aurora to design the menus of game.   **Achievements:**   * Familiar with C/C++, Java programming for Android * 3D games technologies. |

**RESEARCHING ABOUT BIG DATA SCIENCE**

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| **Dec 2016 - present** | ***Researching about Big Data*** |
|  | **Responsibilities**:   * Researching about Big Data ecosystem   **Technologies used**:   * OS: CentOS 7 * Tools: VMware workstation, Cloudera VM   **Achievements:**   * Set up Big Data Ecosystem * Knowledge about Hadoop, Map-Reduce, HBase, Hive, Spark |
| **May 2016 – present** | ***Researching Machine Learning in Python*** |
|  | **Technologies used**:   * Tools: iPython Notebook * Language: Python * Libraries: Scikit-Learn, Pandas, Seaborn   **Achievements:**   * Python programming * Extracting data with Pandas * Visualizing data with Seaborn * Machine learning with Scikit-Learn library * Supervised vs. Unsupervised Learning * Models: regression, classification |
| **Nov 2014 – Oct 2015** | ***Researching Data Science with R Language*** |
|  | **Responsibilities**:   * Register 10 courses about [Data Science Specification](https://www.coursera.org/specializations/jhu-data-science) (duration: 11 months) * Do the quizzes and assignments   **Technologies used**:   * OS: Windows * Tools: R, RStudio * Language: R language * Packages: ggplot2, dplyr, RMarkdown, tm, …   **Achievements:**   * [The certificates about **Data Science Specification**](https://www.coursera.org/account/accomplishments/specialization/3KLTJ85RRT2W) * Experiment in: * The Data Scientist’s Toolbox * R Programming. * Getting and Cleaning Data. * Exploratory Data Analysis. * Reproducible Research. * Exploratory Data Analysis. * Statistical Inference. * Regression Models. * Practical Machine Learning. * Developing Data Products.   **Outputs:**   * **SwiftKey App: predict next word** of an incomplete sentence |

**TECHNICAL SKILLS:**

* Operating Systems: **Windows, Linux**.
* Programming Languages: **C#, C/C++, Java, R, Python, JavaScript**
* Databases:
  + RDBMS: **MS SQL Server, PostGreSQL, MySQL**
  + NoSQL: **MongoDB**
* Knowledge about: **HTML, CSS, XML, JSON**
* Subversion tools: **SVN, mercurial, git**
* Other tools: **Pentaho, Informatica, SAP Design Studio SDK**
* Big Data: **Hadoop, Spark, HBase, Hive, MapReduce, Sqoop**

**LANGUAGES:**

* English:
  + Speaking/Listening : **Fair**
  + Reading/Writing : **Good**

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**EDUCATION:**

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| **2006 – 2010** | **University of Natural Science**, Ho Chi Minh City |
| **Dec 2014 - Oct 2015** | **Data Science Specification**, JHU |