(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.
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| **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.
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**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
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| **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
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**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 |