Hoang Le

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Goal

Looking for a career in data science, analytics, engineering, biomedical devices or bioinformatics.

Highlights

- Experienced with many statistical models: linear regression, SVM, decision trees, neural networks and dimension reduction technique.
- Strong theoretical foundation of data analysis, statistics, and cloud computing
- Few tutorials on big data, machine learning rapid prototyping and neural network with Tensorflow available in this link : https://hoangle2806.github.io/datasciencegiude/
- Github: https://github.com/hoangle2806 (machine learning mini-projects and a website: www.vntomato.net)

Technical Profile

Languages	Java (proficient), SQL (proficient), HTML(proficient), and CSS(proficient)
Scripting languages	Python (advance), and JavaScript (proficient)
Operating system	Linux, Mac OS, and Windows.
Tools/Framework	Tableau, AWS, Django, pandas, numpy, nltk, keras, and scikit-learn
APIs	JSON and REST API

Work Experience

Siri development, Apple **Siri QC/Tester** (3 months) (09/2016 - 12/2016)

Tested quality of Siri's speech recognition based on clarity, correctness, and other guidelines from software engineering team.

- Evaluated work from other testers. Gave recommendations and evaluation report to each tester to improve their quality of work.
- Reported any issues, problems, and corrections to the engineering team to develop Siri's AI

R&D lab (Material Analysis), Intel Corp **Lab Assistant** (7 months) (02/2016 – 09/2016)

Utilized analytical tools to characterize (purity and concentration) ingredients (sulfuric acid, citric acid, methanol, hydrochloric acid, and DI water) from different vendors to ensure quality of the suppliers. Compared raw and finished good products to draw conclusions for fabrication methods.

- Applied statistical methods to compare quality of different chip fabrication. Identified any change in mass, elution time, impurities, peak shapes within a batch or between batches at ppm to ppb level.
- Familiar with many automation tools from Waters (TOC from GE), Agilent (ChemStation) and ThermoFisher (Chromeleon). Analyzed experimental data (linear regression/percentage difference) to draw conclusions about new fabrication techniques.
- In charge of 30 high-end analytical tools, responsible for maintenance, schedule service calls, remote installation/trouble-shooting, cleanliness and status of all the instruments. Tasks included: chose internal standard, utilized internal standard to check instrument response, and re-stock consumables such as Nitrogen gas tanks, HPLC-graded methanol/water, gloves, masks, and safety glass.
- Fully responsible for the safety of myself, guests, and other lab users. Ensured personal protection equipment was wore correctly according to the experiments. Enforced SOP and safety manners in the lab. Disposed waste according to Intel policy and EPA guideline
- Experienced with solvent-based analytical tools: ion chromatography (positive and negative mode) (model: Agilent 5977A serries and ThermoFisher 3000/3000+), liquid chromatography (Agilent 6400 series and ThermoFisher (same flow system as the IC), and Mass spectrometry (Agilent and Thermo single-quadruple, triple-quadruple, time-of-flight, and a combined system of single-quadruple and time-of-lights)
- Experienced with gas-based analytical tools: gas chromatography (GC) (Agilent 5977A series) with many different injections: direct, cool-on-columns, split, and splitless. Mass spectrometry used: single-quadruple.
- Experienced with other analytical tools: inductively coupled plasma mass spectrometry (ICP-MS) for elemental analysis. UV-vis Spectroscopy, FT-IR, and FT-NIR (ThermoFisher system) for quantification and bond energy studies. Water-based instruments: Sievers (Total Organic Carbon analyzers) (Waters) and Capillary electrophoresis (Agilent)

Laser and organic material research, UC Riverside **Research Assistant** (1.5 years) (06/2014 – 12/2015)

Utilized ultrafast laser (Libra 1 kHz, 532 nm, 980 nm, and 435 nm) to study excited state of highly fluorescent organic compounds (the family of perylene compounds). Publication: *Nano Lett.*, **15**(8), 5552-5557 (2015).

Organic synthesis research, CSU Sacramento **Research Assistant** (2 years) (2012 - 2014)

Characterized and synthesized a novel compound, glycodendrimers, for HIV anti-virus from commercially available ingredients. Publication: *Tetrahedron letter*. 2014;55(14):2270-2273. Experienced with the following tools: light microscope, NMR, PCR, DNA/RNA Extraction, SDS-PAGE, Gel electrophoresis, Clean up/ Preparation for sequencing, NCBI Blast, protein purification (Size Exclusion), ELISA, chromatography, and other dialysis methods to purify proteins, DNAs or chemical samples.

Education

M.S., Quantitative Chemistry (3.2/4.0)	University of California, Riverside	(December 2015)
Machine learning certificate	University of Washington	(June 2016)

U.S. Citizen. No visa sponsorship required.