David Leonardi

Machine Learning Engineer & Big Data Engineer

Personal Info

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github.com/nakamura41

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Technical Skills

Python
Keras
Scikit Learn
SQL & NoSQL
HTML/CSS
Data Visualisation
TensorFlow
PyTorch
R
C/C++
Java
Scala
JavaScript

Big Data & Cloud Comp

AWS EC2
AWS Redshift
AWS Athena
AWS Kinesis
AWS Lambda
Apache Hadoop
Apache Spark

Soft Skills

Problem-solver

Analytical thinking

Team players

Education

2018-01 – 2019-05	**NUS Institute of Systems Science**	Singapore

Master of Technology in Knowledge Engineering

(Data Science & Business Analytics)

- Lead the development of Intelligent Systems using contemporary tools and techniques, including Artificial Intelligence, Machine Learning, Prediction, Forecasting, Classification, Clustering and Optimization
- Learned various machine learning methods, such as: linear regression, Bayesian method, decision trees, boosted random forest, ensemble learning, clustering, neural networks, deep neural networks, time series analysis, deep learning.
- Applied Deep Learning method for Image classification
- Applied advanced Natural Language Processing techniques for Sentiment Analysis

2003-08 – 2008-08	**Sekolah Tinggi Teknologi Surabaya**	Surabaya, Indonesia

Bachelor in information technology

- GPA 3.6/4.0

Experience

2018-07 – 2019-03	**A*Star I2R**, **Research Intern**	Singapore

- Developed Emotion classification (Natural Language Processing) model using BERT architecture in PyTorch
  - EmoInt dataset: 85.49% mean accuracy
  - ISEAR dataset: 70.43% mean accuracy
- Developed EEG (Human Brain Signal) classification model using Capsule networks architecture in Keras (70.4% in mean F1-score).

2017-01 – 2017-10	**Razer**, **Senior Big Data Engineer**	Singapore

- Managed a team of data scientists that are responsible for Razer's software analytic platform
- Implement ETL job using Apache Spark, Python, Docker, Apache Mesos, Chronos.
- Designed new centralized Data Warehouse platform using AWS Data Pipeline, Athena, Glue alongside with Google Cloud DataFlow and DataPrep

2015-10 – 2016-12	**The Stakeholder Company**, **Full Stack Engineer**	Singapore

- TSC Product: Atium
- Recruited and managed an engineering team
- Improve News crawling engine using AWS Lambda (Crawler), Scrapy (Parser), Python Newspaper (News analyser), Elasticsearch (Database), and Django (Front-end)

2013-03 – 2015-03	**CV. Alto Karya Mandiri, Founder & CEO**	Surabaya, Indonesia

2011-03 – 2013-01	**The Mobile Gamer**, **Lead Engineer**	Singapore

- Integrate mobile payment system with leading telecommunications companies in Indonesia such as Telkomsel and XL Axiata
- Developed in-house analytics platform which tracks KPI metrics
- Developed mobile games portal with CodeIgniter framework
- Coordinated project management with engineering teams in Jakarta, Indonesia

2007-09 – 2009-09	**Orazion, Co-Founder & Product Director**	Surabaya, Indonesia

- Successfully implemented real estate management platform which managed sales and payment system