Claudio **Scalzo**

Software Engineer intern at SAP • Software Engineering and Data Science MSc student

(+39) 346 24 55 116 • claudio.scalzo@outlook.com • github.com/claudioscalzo • linkedin.com/in/claudioscalzo

Born in Italy in 1994. Passionate about software development in the big data landscape. Strong analytical thinking and team-working skills. Successful results due to the passion for this field and the high precision in projects and tasks fulfillment. Languages: Italian (MT), English (C1), French (intermediate).

Education

Master of Science in Data Science and Engineering   *Sophia Antipolis, France*
Eurecom / Telecom ParisTech   *Sep. 2017 - Mar. 2019*

- Double Degree program between Telecom ParisTech and Politecnico di Torino

Master of Science in Software Engineering   *Turin, Italy*
Politecnico di Torino   *Sep. 2016 - Mar. 2019*

Bachelor's Degree in Software Engineering   *Turin, Italy*
Politecnico di Torino   *Sep. 2013 - Jul. 2016*

- with the highest grade, 110/110

Experience

SAP France   *Paris, France*
Software Engineer / Data Engineer intern   *Jul. 1, 2018 - Dec. 31, 2018*

- Worked on the SAP Mass Data Extension team, adding ADLS transfer capabilities for huge quantity of data, external data ingestion and master data matching in the company Azure Data Lake, built to extend the data warehousing functionalities offered by SAP HANA.
- Implemented the Python module in a distributed fashion, leveraging Spark parallelization and ML techniques, exploiting the distributed computing power offered by the HDInsight clusters and ADLS storage. Worked under the Agile software development methodology.
- Managed Jenkins continuous delivery pipelines for both testing and production environments, providing help and support during the daily team operations, troubleshooting and solution proposals.

Skills

Languages	Python • C • Java • SQL (Oracle PL/SQL, HiveQL) • SPARQL • MATLAB • Bash / AWK / Sed
Big Data	Apache Spark • Apache Hive • MapReduce & HDFS • NoSQL Architectures
Cloud Computing	Microsoft Azure (HDInsight, ADLS) • Apache Ambari
Machine Learning	Spark ML • scikit-learn • Keras • Deep Learning (NNs, CNNs, RNNs) • Probabilistic Machine Learning • NLP
VCS, CI, CD & Others	Git • Jenkins CI/CD • Jupyter / Zeppelin Notebooks • Dialogflow (+ BotKit)

Projects

Team leader for an optimization project for TIM / SWARM Joint Open Lab
GITHUB.COM/CLAUDIOSCALZO/COIOTE

- Solving of a *VRP (Vehicle Routing Problem)* optimization problem proposed by *TIM* and the *SWARM Joint Open Lab*, for an IOT project named *CoIoTe*. Multistart tabu-search approach, written in Java (with the *OpenTS* Java library).
- Achieved 1st position in the final ranking. Secured great comprehension of metaheuristics. Improved algorithmic and team-working skills.

Virtual Assistant for answering music related questions
GITHUB.COM/D2KLAB/MUSIC-CHATBOT • CHATBOT.DOREMUS.ORG

- Virtual assistant development (in the chatbot and vocal assistant forms), capable of answering music related questions and providing detailed graphical results. Informations extracted from the *DOREMUS* knowledge base, queried using the *SPARQL* language.
- Built with *Node.js*, using the *BotKit* framework. Trained Google's *Dialogflow* as NLP. *Facebook Messenger*, *Slack* and *Google Assistant* support.
- Contributed with two accepted pull requests to the `botkit-middleware-dialogflow` author, for concurrency and language support.

Challenge on the `Fashion-MNIST` and `CIFAR-10` datasets: Naive Bayes Classifier and Bayesian Linear Regression
GITHUB.COM/CLAUDIOSCALZO/ASI-CHALLENGE

- Solution of the *ASI (Advanced Statistical Inference)* course challenge. Implemented (from scratch) the Naive Bayes Classifier and the Bayesian Linear Regression, exploited in the classification tasks of the `Fashion-MNIST` and `CIFAR-10` images datasets.
- Written in *Python* using *NumPy* and *Pandas*. Achieved extremely satisfying results in terms of accuracy and computational efficiency.