

# DAMIANO CANCEMI

Senior Front-End Developer



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## PROFILE

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Hello! I'm Damiano Cancemi. From an early age I was fascinated by computers and computer science. I had the opportunity to collaborate and carry out scientific research with various members of my university. In particular, I have gained experience in the field of data and processing analysis, bioinformatics, big data and artificial intelligence. Later I followed my passion for front-end development by approaching several modern technologies. Over the years I have covered the figures of: Front-End Software Engineer, Software Engineer, Full Stack Web developer.

## EDUCATION

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### Master's Degree · Computer Science

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania, Italy*

Final mark: 110/110 with honors

### Bachelor Degree · Data Science

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania, Italy*

Final mark: 92/110

## SKILLS

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### Front-End

HTML, CSS/SASS, Javascript ES5/ES6, Typescript, Angular, AngularJS, React, Vue.js, Webpack, npm/yarn.

### Back-End

Node.js, PHP, Python, R, C#.

## EXPERIENCE

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Gen 2021 - Present

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### Senior Frond-End Developer

*Lynx Group · Full time · Rome, Italy*

Apr 2018 - Gen 2021

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### Software Engineer

*BaxEnergy · Apprendistato · Acireale, Italy*

Oct 2017 - Apr 2018

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### Software Engineer

*BaxEnergy · Internship · Acireale, Italy*

Feb 2013 - Dec 2019

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### Full Stack Developer

*nerdbren · Freelance · Avola, Italy*

Apr 2017 - Jul 2017

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### Full Stack Developer

*Accademia di Belle Arti di Catania · Internship · Catania, Italy*

Development of new student web portal, both front-end and back-end, for courses management, students, teachers and secretarial services.

## EXPERIENCE

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**May 2018 - Jan 2020**

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### **Full Stack Developer**

*Eloro Net · Contract · Avola, Italy*

Development of a tourism portal and API for mobile applications.

**Apr 2012 - Oct 2014**

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### **Full Stack Developer**

*SUAPA network · Freelance · Turin, Italy*

**Oct 2013 - Feb 2014**

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### **Software Developer**

*Department of Clinical and Experimental Medicine · Internship · Catania, Italy*

A web-based application for drug-target interaction.

## PROJECTS

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**May 2017 - Sep 2017**

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### **A hybrid immunological algorithm for the Weighted Feedback Vertex problem Set**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

A hybrid immunological algorithm based on the principle of clonal system selection immune, for the resolution of the Weighted Feedback Vertex Set (WFVS) problem. Find the feedback vertex minimum set in a graph is an important combinatorial problem applied in various real fields. The algorithm created, developed in Python with the help of the NetworkX library, was tested on different instances of the problem, each with different characteristics (number of nodes, number of arches, weight of nodes). The various experimental results show how the algorithm proposed immunological is efficient in terms of accuracy as it reaches or approximates the various optimal solutions of the instances. These results certify the robustness of the algorithm presented whose effectiveness does not seem to be influenced either by the range of assigned weights, nor from the nodes or classes of graphs used.

**Apr 2017 - Jul 2017**

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### **AFAMsis, Miur**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

The AFAM student portal is a web platform developed by the Academy of Fine Arts of Catania in collaboration with the Department of Mathematics and Computer Science, to support the needs operational management of teaching, with reference to the new organizational models currently in. test phase in the AFAM sector. Currently five different institutes have been involved in the sector AFAM (ABA Catania, Naples ABA, ABA Palermo, Florence ISIA, Conservatory of Potenza), which have tested the limits and potential of the system, in order to improve its characteristics, optimize and improve its performance.

**Jun 2017 - Jul 2017**

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### **AgentSimJs**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

AgentSimJs is a tree.js-based Javascript library for multi-agent web simulation, 3D interactions of agents and distributed simulation between the different machines (via the protocol MQTT). To test the usability of AgentSimJs a scenario was simulated (created with the three.js) where a variable number of UAVs (drones) and ground rovers are employed to perform aerial inspections of certain areas containing photovoltaic panels and wind turbines. The simulator offers the opportunity to distribute the simulation across multiple machines or threads through the integrated Web-API component.

Sep 2016 - Mar 2017

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### **HashToMap: a tool for tweets analysis**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

Python tool aimed at analyzing social networking contents, in particular Twitter, for predict and intuit phenomena of various kinds such as: natural disasters, social events, trends and social opinions thanks to a geographical representation of such contents. Developed using distributed computing techniques such as MapReduce and MPI, the tool allows you to search within social network keywords (hashtag) summarizing and highlighting, in a geographical map, places with a higher density of use of these keywords.

Jan 2017 - Feb 2017

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### **Flickr Classifier**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

Python software for the analysis and classification, through Machine Learning techniques, of images obtained from via the Flickr API. Different types of classifications have been made, using a dataset containing images belonging to the "bird" (volatile) and "mammal" categories (mammals). The aim is to train a model that classifies images as "animal volatile" or "non-volatile". The different classifiers are compared with the relative values of "Accuracy\_score" which measure its efficiency. In particular they have been implemented and compared different classifiers: k-nn, logistic regressor (one-vs-rest), logistic regressor (multinomial), Gaussian Naive Bayes and Multinomial Naive Bayes.

Sep 2016 - Dec 2016

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### **Hybrid Recommendation System**

*Motorsquare · Catania*

Implementation of a Hybrid Recommendation System for car selling, developed using the R language and a graph database (Neo4J), in which approaches are combined content-based and collaborative filtering. For the validation of the model created, the k-fold Cross-validation technique.

Mentioned on: <https://neo4j.com/blog/this-week-neo4j-19-august-2017/>

Apr 2016 - Jun 2016

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### **Road Accident Analysis**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

Creation of a model for the classification of road accidents through techniques of Machine Learning. The dataset used, containing information regarding indicators that occurred in the city of Leeds, includes information such as location, number of people and vehicles involved, weather conditions and severity of the injured. Hierarchical clustering techniques were applied beyond the k-means method. Furthermore, different classification approaches were compared on main components (obtained by PCA) such as: Naive Bayes, SVM, LDA, decision trees e K-nearest neighbors.

Mar 2015 - Jul 2015

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### **BioTAGME: An algorithm for predicting annotations on PubMed**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

The main purpose of BioTAGME is to provide a tool that enables analysis algorithmic text and the extraction of latent associations, in order to enrich their understanding. In particular, BioTAGME focuses on biology, using the PubMed database as a source of knowledge, and as a basis for the search for new biological knowledge.

Given an input set of annotated texts with terms characterizing a document, the purpose of BioTAGME consists in calculating a new set of terms as closely related as possible to the input, but which has no synonyms between the old annotations. To achieve this, the approach used consists in defining a correlation measure to calculate a score that simultaneously guarantees a high correlation with the source, without there being the possibility of constructing a random set of terms of the same size having a correlation higher or similar to that calculated.

## PROJECTS

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Dic 2013 - Mar 2014

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### **DTWeb: a web-based application for Drug-Target interaction prediction through domain-tuned network-based inference**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

DTWeb is a web-based interface to the DT-Hybrid algorithm, which applies a recommendation technique based on bipartite network projection implementing resources transfer within the network. This technique combined with domain-specific knowledge expressing drugs and targets similarity is used to compute recommendations for each drug. Our web interface allows the users: (i) to browse all the predictions inferred by the algorithm; (ii) to upload their custom data on which they wish to obtain a prediction through a DT-Hybrid based pipeline; (iii) to help in the early stages of drug combinations, repositioning, substitution, or resistance studies by finding drugs that can act simultaneously on multiple targets in a multi-pathway environment. Our system is periodically synchronized with DrugBank and updated accordingly. The website is free, open to all users, and available at <http://alpha.dmi.unict.it/dtweb/>.

## PUBBLICATIONS

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2014

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### **DTWeb: a web-based application for Drug-Target interaction prediction through domain-tuned network-based inference**

*Bioinformatics Italian Society · Rome*

S. Alaimo, V. Bonnici, D. Cancemi, A. Ferro, R. Giugno, and A. Pulvirenti. DT-Hybrid web: a web-based application for drug-target interaction prediction through domain-tuned network-based inference. In Bioinformatics Italian Society (BITS) Annual Meeting, Rome, 2014.

## HONORS AND AWARDS

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2017

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### **Premio Archimede**

*Dipartimento di Matematica e Informatica, Università degli Studi di Catania · Catania*

Nomination to the "Premio Archimede" 2016/2017 for the best experimental thesis in Computer Science.

## LANGUAGE

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### **English**

Upper-intermediate

### **Italian**

Mother language

## REFERENCES

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### **Damiano Cancemi**

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[www.damianocancemi.com](http://www.damianocancemi.com)

## LOVE

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Front-End



Travelling



Music



Dachshund