



# Luca Cambiaghi

## Computer Engineer (Undergraduate)

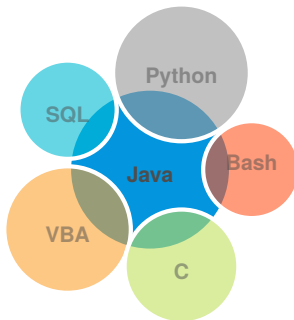
### Address

Klokkehøjen 9  
København NV 2400  
Copenhagen

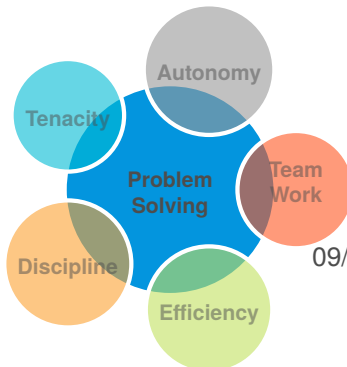
### Contacts

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gmail.com

### Programming



### Personal Skills



### Languages

Italian ★★★★★  
English ★★★★★  
Spanish ★★★★★  
Danish ★★★★★

(Improving day by day :-)

## Experience

03/16 - 06/16 **Management Consultant (Intern)** [Be Think, Solve, Execute, S.p.A., Milan \(Italy\)](#)

I was inserted in a Management Consulting team based in one of the main Italian banks in the role of Software Developer.

Main responsibilities:

- **Implementation of new features** in an existing Excel tool to support Product Control office's monitoring tasks
- Full development and deployment of a **second Excel tool** in **VBA programming language**
- Redaction of **Functional Analysis** of the tools' features
- Redaction of **User Manual** containing step by step procedures and troubleshooting
- Technical support to the bank employees, users of the tool

09/15 - 10/15 **Bartender** [Prince George Pub, London\(United Kingdom\)](#)

I worked for a month in a pub as a bartender.

This job helped me to **gain confidence with the language** and taught me how to **efficiently manage time** and demanding customers. My responsibilities included:

- Regular and fast dialogues with English customers
- Team work with foreign colleagues managing time, supplies and queues
- Weekly reports to the manager

## Education

09/16 - Now **MSc in Computer Science and Engineering**

[Danmarks Teknisk Universitet, Kongens Lyngby \(Denmark\)](#)

Currently focusing on:

- Computational Tools for Big Data: **Python**, MapReduce, Apache **Spark**, **Neo4J** Graph Databases
- Software development of Web Services: SOAP-based and **RESTful** web services, BPEL processes
- Data Security: protocol security, **cryptography**, access control, software security
- Model Checking

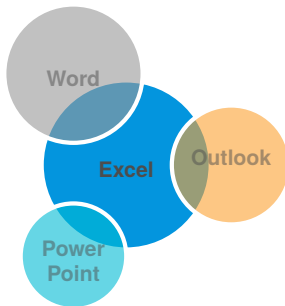
09/13 - 07/16 **BSc in Computer Science and Engineering** [Politecnico di Milano, Milan \(Italy\)](#)

The programme gave me a deep understanding of the **foundations of engineering**: mathematical analysis, linear geometry, mathematical logic; statistics, business economics; physics, electronics, automation.

Main focus of the programme on:

- **C** programming language
- **Java** programming language
- Databases: SQL and DML language, ER diagrams
- **Algorithms theory** and complexity
- Communication networks and **Internet**
- Advanced **computer architectures** and Linux operating system

## Microsoft Office



## OS Preference

MacOS ★★★★★  
Windows ★★★★★  
GNU/Linux ★★★★★

## Places Lived



Milan, IT  
London, UK  
Copenhagen, DK

## Projects

All the listed projects can be viewed on my **Github** repository at [github.com/lccambiaghi](https://github.com/lccambiaghi).

12/16

### Amazon products and reviews analysis

[Course final project](#)

Final project of the course Computational Tools for Big Data. We carried out an analysis combining two big datasets: Amazon product reviews(~30GB) and products metadata(~10GB).

- Performed SQL queries on the datasets with **Spark** and **Pandas**
- Performed text analysis, feature hashing and **machine learning** on the rating of the reviews
- Built a graph database of the entire Amazon website using **Neo4J**
- Documented the project with a report outlining the most relevant results of our analyses

11/16 - 12/16

### TravelGood

[Course final project](#)

Final project of the course Software Development of Web Services.

- Developed two **SOAP-based** web services, representing an Airline and an Hotel Agency
- Developed **BPEL** process of a Travel Agency, calling the web services above mentioned
- Developed **RESTful** version of the Travel Agency, calling the same web services
- Documented the project with a report addressing web services, in particular SOAP vs. REST comparison

10/16 - 11/16

### Authenticated Print Server

[Course project](#)

This is the result of the sum of two assignments of the course Data Security. The security features were implemented using Java Authentication and Authorization Services(**JAAS**) framework.

- Developed an RMI client/server print server with basic functionalities
- Integrated authentication of users through credentials stored in an encrypted public file
- Integrated authorization of users through different permissions defined in a policy file

05/16 - 07/16

### Council of Four

[Undergraduate degree final project](#)

This is the final project of the course Software Engineering and it substituted my undergraduate thesis. It consisted in the full implementation in Java of a board game called 'Council of Four'.

Some of the technologies used:

- **UML** Class and Sequence diagrams
- **Git** version control
- Adoption of **design patterns**
- Implemented both **Socket** and **RMI** connection between server and client
- Unit testing with **JUnit4**