MARTA PANCALDI
Full-Stack Software Engineer

I'm a computer science graduate who loves writing code for work and for fun.
I love solving problems and have a strong desire to learn and continuously improve my skills.
Fiction writer, oboist, philosophy-enthusiast and travel photographer in my free time.

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WORK EXPERIENCE

Jan 2024 – Present
Full-Stack Engineer

Appetize.io - USA (Remote)

The team at Appetize.io has developed a SaaS to stream iOS and Android apps in the browser, also providing tools for automated testing, shareable live app previews and customer support.

- Involved in the development of the V2 iteration of our web application, focusing on enhancing UI elements and integrating new features with existing API endpoints.
- Managing the redesign of our marketing website from the technical side, leading a team of web developers and overseeing their contributions to the site's design and functionality. Additionally, I played a hands-on role in implementing, reviewing and releasing key features.

`React` `Node.js` `NextJS` `TypeScript` `TailwindCSS` `MongoDB` `Project Management`

Mar 2022 – Jan 2024
Full-Stack Engineer

Resourcify GmbH – Hamburg (Remote)

Resourcify is developing a B2B SaaS solution that transforms waste management and recycling processes, aiding companies in efficiently handling waste disposal orders, streamlining accounting tasks, and monitoring industry trends.

- Started in the Recycler API team, where helped maintaining the company's core platform.
- Led the development of an accounting platform for internal and client use, emphasizing user experience, performance, and maintainability. Collaborated closely with Accounting Ops, incorporating continuous feedback to enhance functionality.
- Scaled the application to meet the demands of a growing client base, optimising data handling for reduced latency, faster processing, and improved overall system performance.

`Java` `Spring Boot` `Angular` `TypeScript` `MySQL` `Docker` `Kubernetes` `AWS`

Nov 2020 – Feb 2022
Software Developer

BJSS Ltd – Manchester (Remote)

A technology consultancy company that provides work opportunities on standalone projects, using a variety of programming languages and stacks.

- focused on the maintenance of a client's eCommerce webapp, where I implemented small changes across the entire user journey, from product search to purchase and payment.
- Took on the responsibility of implementing the new cookie banner on the client's EU sites, which involved working on 9 domains.
- I supported the Platform team as a developer and tester in creating a containerized version of the application.

`PHP` `Drupal` `Angular` `Vue` `Jenkins` `Azure` `AWS` `Google Tag Manager`

Sep 2018 – Nov 2020
Graduate Software Engineer

Booking.com Transport – Manchester

I joined the Graduate scheme, involving a team rotation every 6 months – a unique opportunity to gain expertise across the various services within the company.
Some backend projects involved:

- migrating the legacy Pricing Engine to a modern Spring API as part of restructuring towards microservices architecture.
- improving the platform that communicates with supplier APIs and manages the automated reservation process.

In the frontend area I:

- maintained the Payment page of Rentalcars.com and Sanction Screening tool, in compliance with industry standards.
- developed and scaled the new "Premium" insurance product, driving revenue growth starting from a few small airports, then expanding the market presence to many popular holiday destinations.
- contributed to web-replatforming efforts, developing filters for the Rentalcars results page and creating "Premium" and "Full Insurance" upsell banners using React, integrating them into the main webapp.

I also conducted interviews for the company's graduate scheme, identifying top talent to join the team, and helped implementing WFH techniques during Covid-19, enhancing productivity, communication and overall well-being.

`Java` `Spring Boot` `REST APIs` `JSP` `JavaScript` `React` `Node.js` `PHP` `MySQL` `Bamboo` `GoCD` `AWS` `GCP`

Sep 2017 – Mar 2018

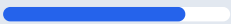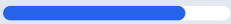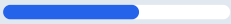### Free University of Bolzano – Manchester (Remote)
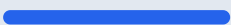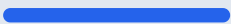
EDUCATION

University of Manchester (UK)
MSc in Advanced Computer Science
2017 – 2018   Distinction

Free University of Bolzano (Italy)
BSc in Computer Science
2014 – 2017   106/110

College of Charleston (USA)
Exchange Semester
2015   4.0 GPA

PROGRAMMING

Java
TypeScript
Python
Kotlin
C#
PHP

SKILLS

Frontend: React, Angular, Vue, jQuery, HTML, CSS, Bootstrap, TailwindCSS, MaterialUI, Prime

Backend: Spring Boot, JSP, Django, Flask, ASP.NET, Node.js, Express, Drupal

Database: MySQL, Postgres, MongoDB, MS SQL Server, Firestore

Testing: TDD, BDD, Junit, Mockito, Cucumber, Selenium, PACT, Jest, Espresso

Cloud: AWS, GCP, Firebase, Heroku

DevOps: Docker, Kubernetes, Jenkins

LANGUAGES

Italian   Native
English   Fluent (C2)
German   Intermediate (B1-B2)
French   Beginner (A1-A2)

Research Assistant

`Cloud` `SaaS` `GDPR`

Collaboration in writing an article for IEEE about contracts and policies of cloud services, to give companies guidance on how to be compliant following the changes introduced by the new European law on data protection (GDPR).

July 2016 – Mar 2017
Frontend Developer

`AngularJS` `Node.js` `MongoDB`

ICT Group – Reggio Emilia, Italy (Hybrid)

A 300-hour curricular internship, which led to a 5-month part-time contract. During this time, I developed a customized HRMS web application that allowed employees and HR staff to manage holiday, sick leave, and business travel requests.

PUBLICATIONS

2018 **Research Project:** Cloud Computing and the New EU General Data Protection Regulation

IEEE Cloud Computing, Nov./Dec. 2018, pp. 58-68, vol. 5

2018 **MSc Dissertation:** automating the evaluation of student programming exercises.

University of Manchester

2017 **BSc Dissertation:** research on exploiting Self-Admitted Technical Debt for updating / reverting code versions in a context of emergent events in Systems of Systems.

Free University of Bolzano

PROJECTS

2024 **FlexInvoice:** A tool for generating customised invoices, to simplify businesses and freelancers' accounting duties.

2023 **PokémonGo Connect:** working on a platform that allows players of PokémonGo to find friends from all over the world, based on an algorithm to find "matches" for region-based challenges (e.g., player from region A, looking for players from B, C, D, and not E), raids and other activities.

2022 **Advent of Code:** I completed all 2015-2022 challenges using mainly Kotlin, Java and Python.

2021 **Raspberry PI dashboard:** set of customised dashboards (weather, air quality, Covid19 cases, stocks, alerts from projects...) to be displayed on a screen and powered by a Raspberry Pi.

2020 **Italian Fiscal Code:** Android app to compute the Italian tax code, extract user's details and verify correctness; published on the Play Store with 100000+ downloads.

2019 **xbar plugin:** display build & deployment statuses of preferred Bamboo branches and other team-relevant information, also contributing to the open-source xbar (previously known as BitBar) project.

2017 **GESS Hackathon (Shanghai):** Global Entrepreneurship Summer School on Food and Sustainability. I participated in a hackathon hosted by Tongji University, and developed a MVP of an app for supermarket customers to locate and purchase discounted and near-to-expiry food.

2017 **"Silicon Valley Study Tour":** organised tour of the major companies and universities in the San Francisco Bay area for the most talented Italian students.

2016 **Google "Inside Look":** workshop on Cloud technologies at Google Warsaw for Computer Science students graduating in 2017 (invitation via selective contest, fully funded).