MARTA PANCALDI
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

Mar 2022 – Present
Full-Stack Engineer

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

Resourcify GmbH – Hamburg (Remote)

Full-stack work involving development of greenfield tools and maintenance of legacy components, covering a diverse range of projects and technologies, adapting to new challenges and delivering quality results.
- My career started in the Recycler API/Platform Core team, where I honed my skills in building robust and scalable applications.
- Later, I joined the Accounting Squad, where I took a leading role in developing a new accounting platform for internal and client use. I approached this project with a focus on user experience, performance, and maintainability, resulting in a successful product launch. In close collaboration with the Accounting Ops, I actively sought feedback to continuously improve the functionality of the platform, ensuring it met their specific needs.
- I successfully scaled the application to serve a growing number of clients and their orders and invoices, and I ensured that the application could handle larger volumes of data with minimal latency, resulting in faster processing and improved overall system performance.

Nov 2020 – Feb 2022
Software Developer

PHP · Drupal
Angular · Vue
Google Tag Manager
Jenkins · AWS

BJSS Ltd – Manchester (Remote)

A technology consultancy company that provides work opportunities on standalone projects, using a variety of programming languages and stacks.
- During my time at BJSS, I 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.
- I also 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.

Sep 2018 – Nov 2020
Graduate Software Engineer

Java · JSP
Spring Boot
JavaScript
ReactJS · NodeJS
PHP · MySQL
Bamboo · GoCD
AWS · GCP

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:
- the migration of the legacy Pricing Engine to a modern Spring API as part of restructuring towards microservices architecture.
- the improvement of 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.
- I contributed to the development and scaling of the new "Premium" insurance product, driving revenue growth starting from a few small airports, then expanding the market presence to several popular holiday destinations.
- and contributed to web-replatforming efforts, developing various filters for the Rentalcars results page and creating "Premium" and "Full Insurance" upsell banners using React, seamlessly 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,

Sep 2017 – Mar 2018
Research Assistant

Cloud · SaaS · GDPR

Free University of Bolzano – Manchester (Remote)

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
Bootstrap · jQuery
NodeJS · MongoDB

ICT Group – Reggio Emilia, Italy (Hybrid)

Completed 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.

EDUCATION

University of Manchester
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   GPA 4.0

PROGRAMMING

Java	●●●●●
Python	●●●●●
TypeScript	●●●●
Kotlin	●●●●
C#	●●●
PHP	●●

SKILLS

Frontend: React, Angular, Vue, TypeScript, jQuery, HTML, CSS, Bootstrap, Tailwind

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

Database: MySQL, Postgres, MongoDB, 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)

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

        MSc dissertation: automating the evaluation of student programming exercises.
University of Manchester, 2018

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, 2017

PROJECTS

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 coding challenges using mainly Kotlin 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.

        "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).

AWARDS & ACHIEVEMENTS

2016, UniBZ
Merit scholarship for students

2015, Istituto Musicale "A. Peri"
Diploma in Oboe

2015, UniBZ & College of Charleston
Erasmus+ scholarship.

HOBBIES & ACTIVITIES

Working on personal dev projects, following courses and tech talks.

Photography, video editing, computer graphics, videogames.

Reading novels and essays, technical and creative writing.

(solo) travelling.

Classical music, theatre, museums.