

# Matteo Possamai

SOFTWARE ENGINEER

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## Work Experience

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### Amazon

Berlin, Germany

SOFTWARE DEVELOPMENT ENGINEER

Jul. 2023 - Sept. 2023

- Integration of Large Language Model (LLM) technology inside the AWS CLI capabilities for command suggestion
- Developed a tool to asses the LLM output quality given the prompt. Leveraged this tool to create a prompt optimizer for customers' input
- Created a utility package for internal teams to simplify interaction with AI agents, shortening new features development by 20%
- Technology used: Golang, Python, AWS Cloud suite, CodeWhisperer LLM

### Zwap.io

Remote

SOFTWARE ENGINEER INTERN

Jun. 2022 - Sept. 2022

- Refactored the backend, translating the application architecture from monolith to microservice, using gRPC
- Improved the API response time by 80% from the old version, improving users' experience and site usability
- Wrote and added to GitHub build pipeline more than 1000 tests to ensure reliability of new features added
- Developed internal tools, such as the Slack bot to query the database, send emails, create automated reports and other 7 different actions
- Technology used: Python, Django, Django Rest Framework, pandas, PostgreSQL, Redis, gRPC

### Mamix SRL

Valdobbiadene, Italy

SOFTWARE ENGINEERING INTERN

May 2021 - Jul. 2021

- Developed and maintained the company's customer websites ( 2 different projects ) and managed the content displayed in them
- Improved frontend performance by 20% and made it responsive also for mobile devices, so the month traffic grew by 10%
- Implemented backend features, such as a subscription to news channels and automated email scheduling

## Education

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### University of Trento, DISI

Trento, Italy

B.S. IN COMPUTER SCIENCE

Sept. 2022 - Jun. 2025

- Studying Computer Science Foundations and how modern technology and systems work, exploring different patterns used to approach coding
- Relevant courses (AVG grade 27/30): Computer Programming 1, 2, Web Programming, Functional Programming, Probability and Statistics, Calculus, Math foundation for CS, Algorithm and Data Structures, Software Engineering

## Projects

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### MyTable

[GitHub](#)

DYNAMIC MENU MANAGEMENT PLATFORM FOR LOCAL RESTAURANTS

- Creation of the React frontend of the dashboard and the mobile webapp to visualize all the product available in the menu
- Creation of the API with Django, handling all the requests and managing the PostgreSQL database where all the data are stored
- Configured the custom reverse proxy to handle SSH in the backend, and added security layer via the Django API itself

### Mad4Science

[GitHub](#)

DYNAMIC WEB APP TO SHOW THE POLLUTION LEVEL IN THE CURRENT AREA

- Built Node/Express backend to handle data in the database, and serve them to the frontend via REST API, with JSON format
- Built frontend and admin panel to insert and manage data with plain Javascript. Creating all the styles from scratch using plain CSS
- Designed, created and managed the PostgreSQL database to store, manage and retrieve data of each record

### MoonDev.env

[GitHub](#)

ONLINE-BASED COLLABORATIVE DEVELOPMENT ENVIRONMENT

- Built Node/Express backend application to manage the database and to serve data via API, allowing authentication and data management
- Implemented in the backend a real-time system for the chat and pair programming features, and the storage with a MongoDB as database
- Built frontend using React.js, including the programming

## Technical skills

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Python, JavaScript/TypeScript, Golang, Java, C/C++, HTML, CSS, Node, React, Django, PostgreSQL, Redis, Git, Docker

## Honors & Awards

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2021 **Finalist**, Linux Day Veneto Hackathon  
2019 **Finalist**, Math Regional Olympics

Feltre, Italy  
Belluno, Italy