

Ndricim Rrapi

Software Developer
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EDUCATION

- **Technical University of Munich** Munich, Germany
Master of Science in Computer Science 2019 – 2022
- **Bilkent University** Ankara, Turkey
Bachelor of Science in Computer Engineering; 2015 – 2019

EXPERIENCE

- **SAP** Munich, Germany
Full Stack Developer - Fellowship Oct 2024 - Present
Worked for **6 months** as a fellow in the **SAP GreenToken** team.
 - **Backend**: Refactored backend systems using **Java** and **Spring** and **MongoDB** to enhance performance under high load using queue-based distribution strategy.
 - **Docker**: Heavily used **Docker/Docker Compose** to test production systems locally.
 - **Shell**: Fixed and fully refactored an old **Shell** script used to clone large amount of data from **MongoDB**
 - **Performance**: Conducted system performance optimizations using **K6** for more efficient load testing
 - **Incident Management**: Helped address critical system incidents, ensuring high availability and reduced downtime.
 - **Angular**: Implemented UI features with **Angular** and added tests with **Cypress**, **Cucumber** and **Jest**
 - **CI/CD**: Developed CI/CD pipelines using **Jenkins** to improve the backends performance testing infrastructure
- **SAP** Munich, Germany
Developer - Specialist Mar 2023 - Sept 2024
 - **Promotion**: Got promoted from Associate (T1) to Specialist (T2) after **1 year** as an associate.
 - **Award**: Got awarded the **SAP Spot Award** as a "recognition of exceptional commitment and outstanding work results".
 - **CI/CD**: Helped migrate our pipeline from **Travis** to **Github Actions**.
 - **Jest**: Increased unit test coverage from **20%** to **95%**
 - **Cypress**: Added Cypress testing to our pipeline to test a new set of our UI components
 - **ORA / Open Source**: Worked on the **Open Reference Architecture** project under the EU's IPCEI-CIS initiative. The project aims to 'build a high-performance cloud-edge infrastructure'. Added new features and fixed bugs that allow our Luigi microfrontend solution to be adapted to cloud platform to be built
 - **Supervision**: Dealt with technical onboarding and supervised 2 other newcomers to the team
- **SAP** Munich, Germany
Associate Developer Apr 2022 - Mar 2023
 - **CI/CD**: Identified issues on our **Travis** pipeline to make the pipeline run **1 minute** faster.
 - **Award**: Got awarded the **SAP Spot Award** as a "recognition of exceptional commitment and outstanding work results".
 - **Supervised**: Dealt with technical on-boarding and supervised **3** newcomers in the team.
 - **Client Communication**: Dealt directly with clients and created POCs and examples for them.
 - **Scrum & Agile**: Worked with a Scrum Team. Managed backlog items by creating, deleting issues, epics, and removing outdated ones.
 - **Rewrote**: our documentation website to use the latest **SvelteKit** version.
 - **Hyperspace**: Assisted the SAP Hyperspace team to adapt **Luigi** to their portal.
- **SAP** Munich, Germany
Student Developer Nov 2019 - Mar 2022
Worked on the Luigi Project - a **Vanilla JS** microfrontend framework - adjacent to my Master studies as a student developer.

- **UI Frameworks:** Created example apps to test our framework on **React**, **Angular**, **OpenUI5**, **NextJs**, **VueJs** and **Svelte**.
- **Docker:** Made use of Docker to test and identify our Authentication Setup.

• TU Munich

Munich, Germany

Full Stack Developer (Java/Angular)

April 2021 - Oct 2021

- **Artemis:** Contributed to the Artemis platform as part of my **Master Thesis** and added new features to the platform.
- **Java:** I have used **Spring Framework** for creating **RESTful** web services, **Hibernate** for **ORM**, and **JUnit** for unit testing. My work involved enhancing backend logic and ensuring services were well-tested and reliable.
- **Angular:** I utilized Angular's core modules for building components, services, and handling routing. I also worked with **RxJS** for managing asynchronous data streams efficiently.
- **Typescript:** I used TypeScript for building the features in the frontend side of the application and got a lot of experience with strong typing.
- **Jest:** I primarily used **Jest** and **Sinon-Chai** assertions for unit testing Angular components and services. These frameworks helped maintain high test coverage and catch potential issues early in the development cycle.
- **JUnit:** I used JUnit extensively for **Java** unit testing to ensure code quality and reliability of the RESTful web services I added to the backend.
- **CI/CD:** I managed deployment issues and integrated code changes involving **GitHub Actions** and **Bamboo**.

• TU Munich

Munich, Germany

Teaching Assistant

Oct 2020 - Mar 2021

- **Tutoring:** Worked as a tutor for the Patterns in Software Engineering course, with **654** students and **21** tutors.
- **Java:** Created programming exercises for **654 students** to practice their Java skills through the interactive learning platform Artemis - developed by TUM's Department of Applied Software Engineering.
- **Student Exams:** Graded student text exercises at the final exam of the "Patterns in Software Engineering Course".
- **Video Presentations:** Created guidelines for Video Presentation homeworks that were given to students as part of the course.
- **VanillaJS:** Created an internal tool to automatically generate weekly prettified list of student homework submissions from more than **100** students.
- **JUnit:** Wrote JUnit tests for the programming exercises to automatically grade student coding exercises through the Artemis CI pipeline.

• Smokeless

Munich, Germany

Software Developer Intern (React)

Aug 2020 - Mar 2021

- **React:** Built a Dashboard to visualize user data into different types of charts using **Chart.JS** and **ant-design-charts** to help stakeholders make decisions based on usage patterns.

• Motius

Munich, Germany

Freelance Developer (React)

May 2019 - June 2019

- **React:** Built a User Application App with multiple steps that collected user data and submitted it forward to internal systems.
- **Figma:** Collaborated with the Design team by building UI that conformed to the specified Design mock-ups.

• GT-ARC

Berlin, Germany

Software Developer Intern (React/Angular)

Jun 2018 - Aug 2018

- **React:** Worked on internal tooling for the Chariot IoT project. Built a control panel that was used to aggregate the **IoT** sensor data into one web application.
- **Angular:** Built a dashboard that aggregated live **IoT** sensor data into a user interface that made it possible to see where the sensors were spread out into the map and what actions the user was able to request for them. App made it possible to filter through a list of sensors based on defined filters
- **Java:** Got familiar with Java concepts in the IoT app. Concepts like **Maven**, **JUnit** tests, **Java Beans**.

• ISD

Tirana, Albania

Software Developer Intern (Java)

Jun 2017 - Jul 2017

- **JavaFX:** Created a demo Cashier desktop app using JavaFX.
- **SQLite:** Used SQLite as a database engine to save the apps data on the local machine.

PROJECTS

- **BilMenu:** A VanillaJS website and an Android App for showing meal plan of the University Cafeteria.
- **Random Generator:** An Angular app used to generate randomized user data for Albanian users.
- **PingPong v AI:** An simple VanillaJS Ping-Pong 2-Player game.
- **isAlbanianName:** A simple NPM package to check if given name is Albanian.
- **Panzer 2017:** A JavaFX written game emulating a modern version of the old BattleCity arcade game.
- **myScore:** An iOS App I wrote in a team project as part of a Practical course at TUM.

PROGRAMMING SKILLS

- **Programming Languages:** Javascript, Typescript, SQL, Java
- **Technologies:** React, Angular, Travis, GithubActions, GitlabCI, Jenkins, Bamboo, Android, iOS, Docker, MongoDB
- **Languages** Albanian (*native*), English (*proficient*), German (*B1*), Italian (*A2*), Spanish (*A2*), Turkish (*B1*)