

# Vanessa Vieira

## Curriculum Vitae

Graz, Austria

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## Experience

Apr 2022 – **Java Software Engineer**, DYNATRACE, Graz, Austria.

- Present
- Uses Java 17 to develop and maintain projects within a Microservices architecture.
  - Uses Java 11 to maintain a legacy project.
  - Leverages the Dynatrace Platform to develop an automated Data Quality check project.
  - Uses Test Driven Development - implements integration, unit, e2e and/or API tests before starting feature implementation/modification.
  - Contributes actively to system design workshops by providing insights, sharing expertise, and aiding in decision-making processes alongside team members and stakeholders.
  - Developed comprehensive data models for MySQL and Postgres databases, thoughtfully addressing both current operational needs and future scalability requirements.
  - Engaged in multiple projects leveraging Kafka's distributed messaging system to facilitate asynchronous communication and real-time event processing within the microservice architecture. Contributed to the design, development, and implementation phases, ensuring scalability, resilience, and effective integration of Kafka into the project pipelines.
  - Researched, designed, developed and documented a project to ensure data consistency across two sources: a MySQL Database and a Snowflake Warehouse, deemed crucial for report generation. Dynatrace's latest platform concepts were leveraged to design workflows for seamlessly fetching hourly data and performing data quality checks using JavaScript tasks. The results are stored on AWS S3 buckets for further data engineering. Instant alerts via Slack are triggered upon any disparities, facilitating investigation and resolution.
  - Orchestrated several releases, ensuring accurate tagging for triggering CI/CD pipelines. Monitored Jenkins builds for success and promptly addressed any issues within Kubernetes pods to maintain uninterrupted service availability.
  - Used a blue-green deployment strategy on an Amazon RDS cluster to update the MySQL version, ensuring uninterrupted availability and mitigating the risk of potential database downtime.
  - Works closely with Product Owner to successfully represent the team in technical discussions with other teams for feature planning and/or problem solving communication and coordination.
  - Uses Scrum for Agile development with dailies, weekly refinements, sprint planning, sprint review and sprint retro.
  - In the absence of designated team leaders, seamlessly transitions into the roles of Team Captain and Product Owner, ensuring smooth operations, organizing and leading team meetings, and fostering communication with stakeholders. Takes proactive steps to address obstacles for team members, represents the team in external meetings and leads system design workshops.
  - Actively participates on Leadership training with workshops, mentorship programs and Udemy course.
  - Tech stack:
    - Docker, Kubernetes, Jenkins, Gradle, JVM, AWS (S3, EC2, RDS), Monaco (Monitoring as Code), Internal Dynatrace Framework (similar to SpringBoot), MyBatis, Quartz Scheduler, Swagger, RESTful APIs, HTTP APIs, Jetty, JUnit, Mockito, Git, Dynatrace Platform.
    - Java microservices: Java 17, MySQL, Postgres, Kafka (eventbus), Protobuf, Terraform.
    - Java legacy projects: Java 11, MySQL, Pulumi.
    - Data quality project: Javascript, Typescript, Snowflake, Dynatrace Platform (Workflows, Custom workflow actions, Apps, Notebooks, Active Gate), AWS S3.

- Jul 2021 – **Master Thesis - Data Science Team**, DYNATRACE, Graz, Austria.
- Mar 2022
- Worked with the Data Science team on master thesis project entitled "Identifying System Building Blocks by Graph Mining", a collaboration between Dynatrace and TU Graz, making use of Dynatrace customers' monitored data to model the data as graphs and mine patterns to help business decision making.
  - Developed JupyterHub Notebooks in Python to fetch big data from an Amazon Redshift warehouse. The data was cleaned-up, made anonymous, and modeled as graphs.
  - Experimented with multiple algorithms for graph pattern mining, ultimately selecting the most effective one. The resulting patterns were then visually represented.
  - Used a mixture of Kanban and Scrum for Agile development.
  - Tech stack: Python 3.8, JupyterHub, Amazon Redshift, Python libraries for Data Science/Machine Learning, such as Pandas, Networkx, Psycopg2 and Altair.
- Jul 2020 – **Junior Java Software Engineer**, DYNATRACE, Graz, Austria.
- Jun 2021
- Worked on Licensing topics within Legacy projects and a Java microservice project with Salesforce Boomi integration.
  - Provided assistance to License managers and customers regarding the different licensing models and their consumption tracking.
  - Used Scrum for Agile Development with dailies, weekly refinements, sprint planning, sprint review and sprint retro.
  - Tech stack: Java 8, Java 11, MySQL, Mockito, Kubernetes, Docker, Git, Dynatrace Classic Platform.
- Dec 2017 – **Undergraduate Researcher**, LABORATORY OF SCIENTIFIC COMPUTATION AND NUMERICAL ANALYSIS (LACCAN), Maceio, Brazil.
- Apr 2019
- Acted as an Undergraduate Researcher in the field of Network Virtualization and Wireless Sensor Networks.
  - In 2019, won the prize for best paper in the II Workshop of Scientific Initiation and Undergraduate Research of SBRC (WTG) presented during the XXXVII Brazilian Symposium on Computer Networks and Distributed Systems (SBRC 2019).
  - Used Python as main language to solve a combinatorial problem with a heuristic in polynomial time. Studied the use of a game theory-based auctioning strategy to absorb high peak demands of mobile services clients.

## Education

- Oct 2019 – **Technische Universität Graz (TU Graz), Graz, Austria**, *Master of Science, Computer Science*
- Oct 2022 Finished graduation with Data Science major and Algorithms as minor.
- 2015 – 2019 **Universidade Federal de Alagoas (UFAL), Maceio, Brazil**, *Bachelors of Science, Computer Science*.

## Skills & Abilities

- Programming Languages JAVA, JAVASCRIPT, PYTHON, C++, SWIFT.
- Concepts Microservices Architecture, Event-based Architecture, System Design, Cloud Computing, Continuous Integration and Continuous Delivery (CI/CD), DevOps, Test Driven Development (TDD) – Unit Testing, Integration Testing, E2E Testing.
- Soft skills Communication, Agile development, Team work, Leadership training.

## Volunteer Experience

- Nov 2022 – **Co-Organizer**, WOMEN\*+TECH, Graz, Austria.
- Present
- As a co-organizer, plays a pivotal role in fostering a supportive community for women in tech careers in Graz. Responsibilities includes organizing events, managing finances, ensuring sustainability, and contributing to the group's mission of providing a safe and inclusive space for women in the tech industry to connect and grow together.

- Ago 2017 – **President**, STUDENT ACADEMIC CENTER OF COMPUTING (DIACOM) – COMPUTING  
Ago 2018 INSTITUTE – UFAL, Maceio, Brazil.
- o Acted as President of a nonprofit organization whose main goal is to represent the needs of undergraduate students in Computer Science and Computer Engineering at Universidade Federal de Alagoas (UFAL).

## Languages

Portuguese **Native Speaker**

English **Advanced**

Deutsch **Basic**

*Toefl IBT Score 93 (2018)*

*Finished courses up to A2.2*

## Ready to work in Austria

Red-White-Red Plus card holder with free access to the Austrian labor market.