

YANNICK REINHARD PFERR

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EDUCATION

Technische Universität Darmstadt | M.Sc. Business Information Systems **October 2018 – July 2021**
Relevant coursework: Scalable Data Management, Data Mining & Machine Learning, Decision Support Systems, IT-Security

Technische Universität Darmstadt | B.Sc. Business Information Systems **October 2014 – April 2018**
Relevant coursework: Functional & Object-Oriented Programming Concepts, Data Structures & Algorithms, Operating Systems, Software Engineering, IT-Security, Information Management, Computational Engineering & Robotics, Mathematics, Statistics

TECHNICAL SKILLS

Programming languages: Java, JavaScript/TypeScript, Python, HTML/CSS, SQL

Frameworks and libraries: React, Spring, scikit-learn, pandas, TensorFlow, Keras, Next.js, Gatsby.js

Certificates: Salesforce Marketing Cloud Email Specialist

PROFESSIONAL EXPERIENCE

Commerzbank AG **Frankfurt am Main**
Software Engineer (IT-Trainee program) | Full Time **since October 2021**

- Redesigned and rebuilt a supervised machine learning model for the treasury, to classify if customers are going to use their special repayment option of their loan, and boosted the F1-score of the old model by 22% (Python, scikit-learn, pandas)
- Developed, tested, and maintained the frontend of a foreign exchange trading app and quickly rose to become one of the top performing devs in a team of 12, while also supporting other juniors (React, TypeScript, Styled Components)
- Led a team of five interns/students to help different teams with the deployment of new APIs
- Implemented new REST API endpoints in the backend of the Commerzbank developer API portal and built a feature in the frontend, that allowed users to see the deployment/staging status of their APIs (React, Java Spring)

Bosch Rexroth AG **Erbach**
Data Scientist | Master Thesis ([GitHub](#)) **January 2021 – June 2021**

- Researched how machine learning can be used to optimize a production scheduling problem (combinatorial optimization), drafted, implemented, and evaluated a solution, and completed the master thesis with grade 1,0
- Extracted machine and production data from about a million excel files, analyzed, cleaned, and prepared it for the model
- Implemented a reinforcement learning algorithm from scratch and achieved a 12% reduction in production time per production line, which corresponds to a yearly decrease in cost of about 300.000 € per production line
- Analyzed results, translated them into business recommendations and presented them to senior management
- Tech used: Python, JavaScript, pandas, TensorFlow, Keras, scikit-learn, Node-RED

Arlanis Reply AG **Frankfurt am Main**
Software Engineer | Bachelor Thesis, Intern, Working Student **January 2018 – September 2021**

- Built an app for consultants to help them automate various tasks in the Salesforce Marketing Cloud (SF MC) like data migration and saved them multiple hours of tedious manual work in the process (Java, SQL, SF API)
- Developed a full stack web app for clients running in SF MC so clients could export specific Marketing Cloud data to excel files, without them needing to know how to write SQL queries (JavaScript in frontend & backend, HTML, CSS, SQL)
- Implemented a service, that exported millions of campaign tracking records from SF MC, processed them and imported them into Salesforce CRM, to help a client easily customize their campaign tracking reports (Java, Heroku, SF APIs)

ACHIEVEMENTS AND LEADERSHIP

1st place in the Google challenge at Commerzbank Collabothon 2022 ([GitHub](#))

Created a scalable web app in a team of five, that connects refugees with volunteers through the in-app chat, to help the refugees with daily tasks that might be challenging for them (JavaScript, Next.js, React, Firebase Firestore)

Commerzbank IT-Trainee Community Lead

Acted as one of four community leads for about 60 IT-Trainees to help organize knowledge sharing sessions and other events

Speaker at Commerzbank Tech Conference 2022

Gave a presentation about Quantum Cryptography together with a colleague and it attracted more than 250 people

ABOUT ME

Soft skills: curiosity, adaptability, fast learning, problem solving, communication

Languages: German (native), English (fluent), French (basic)

Interests and hobbies: personal software projects (see [GitHub](#) or [Website](#)), fitness, and healthy cooking