

Johannes HAGSPIEL

Software Developer

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EDUCATION

August 2021 September 2018	MSc Business Information Management, Rotterdam School of Management <ul style="list-style-type: none">> <i>Thesis:</i> “The Critical Success Factors of the Stationary Distribution of German Retail Banks given the Challenges of Digitalization and COVID-19”> <i>Specialization:</i> Data Science (Network Data Analysis, Data Science with Python)
July 2021 September 2018	BSc Computer Science and Engineering, Delft University of Technology <ul style="list-style-type: none">> <i>Thesis:</i> “The influence of sequence length on the clustering performance of MalPaCA”> <i>Specialization:</i> Data (Big Data Processing, Data Mining, Computational Intelligence)
July 2018 September 2016	BA Double Degree Philosophy, Erasmus University Rotterdam <ul style="list-style-type: none">> <i>Thesis:</i> “The Culture Industry”
July 2018 September 2015	BSc International Business Administration, Rotterdam School of Management <ul style="list-style-type: none">> <i>Distinction:</i> Summa Cum Laude> <i>Thesis:</i> “On the goal gradient hypothesis”> <i>Exchange:</i> ESADE, Barcelona, Spain
July 2014 September 2005	Allgemeinbildende Höhere Schule, Bundesgymnasium Bregenz Gallusstraße <ul style="list-style-type: none">> <i>Distinction:</i> Matura mit ausgezeichnetem Erfolg (1.0 GPA)

EXPERIENCE

Present July 2023	Junior Software Engineer, ERGON INFORMATIK AG, Switzerland Junior Full Stack Engineer React.js TypeScript Kotlin Spring
Present September 2021	Gap Year Personal and professional development after university studies <ul style="list-style-type: none">> Explored the cities and festivals of Europe after COVID-19> Obtained an AWS Cloud Quest: Cloud Practitioner and a Java Backend Developer certificate> Solved over 570 data structures and algorithms as well as SQL problems> Created a personal website and turned long-held ideas into actual software Personal development Data structures & algorithms SQL Java Spring Boot AWS
June 2020 April 2020	Internship, MVRDV NEXT, Netherlands Development of a desktop application following the Scrum methodology as part of a team of four <ul style="list-style-type: none">> Collaboratively brainstormed as well as determined the requirements for a software that can generate different cityscape scenarios and evaluate their sustainability> Created a system to connect to two of the most popular open source satellite imagery providers> Integrated three image detection neural networks to identify trees, cars and houses> Designed an interactive GUI that enables the users to manipulate the detected objects Scrum Python Machine learning Tkinter Git PyCharm Data visualization
June 2015 October 2014	Civil service, VORARLBERGER KINDERDORF, Austria Assistance to the administration and the childcare of the Vorarlberger Kinderdorf <ul style="list-style-type: none">> Provided administrative support to a team in all day-to-day matters including managing a database as well as communicating with internal and external stakeholders> Collaborated with the pedagogical offers of the Vorarlberger Kinderdorf such as educational assistance for children with a migrant background or weekly entertainment through the Spielbus Team work Communication Database management Child care

SKILLS

Programming languages	Python	● ● ● ● ○	Databases	MySQL	● ● ● ● ○	
	Java	● ● ● ○ ○		MongoDB	● ● ○ ○ ○	
	Scala	● ● ○ ○ ○		Frameworks & Libraries	Spring	● ● ○ ○ ○
	Node.js	● ● ○ ○ ○			Hibernate	● ○ ○ ○ ○
	Haskell	● ○ ○ ○ ○		DevOps	React.js	● ○ ○ ○ ○
	Bash	● ○ ○ ○ ○		Cloud computing	Git	● ● ● ○ ○
	TypeScript	● ○ ○ ○ ○		Software architecture	AWS	● ○ ○ ○ ○
IDEs	PyCharm	● ● ● ● ○	Software development process	REST API	● ● ○ ○ ○	
	IntelliJ	● ● ● ○ ○	Agile development	Agile development	● ● ● ○ ○	
	WebStorm	● ● ○ ○ ○				

CERTIFICATES

November 2022 | [AWS Cloud Quest: Cloud Practitioner](#)
 October 2022 | [Java Backend Developer](#)

SOFTWARE

IMMUTABLE X GATEWAY 2022 - 2023

Created a program to engage with the “Immutable X” blockchain to identify as well as exploit arbitrage opportunities.

- > Built a system to download tens of new orders per second as well as price information over a REST-API from multiple sources in a parallel fashion given the restrictions of a rate-limited environment
- > Developed a pipeline to continuously turn the downloaded data into actionable insights about mispriced assets
- > Designed a trading bot that autonomously buys and sells undervalued items

Python MySQL MongoDB REST API Git Blockchain PyCharm pandas

YET ANOTHER LANGUAGE LEARNING EXTENSION 2022

Developed a Google Chrome extension which enables the user to translate words and create flashcards in the browser.

- > Halved the time needed to turn an unknown word into a flashcard
- > Designed an easy-to-use HTML text editor so that flashcards can be customized
- > Connected the extension to the REST-API of a German translation provider and that of the popular spaced repetition flashcard program Anki

JavaScript React.js Git WebStorm

BIG DATA SCRIPTS 2019

Created a collection of Apache Spark and Flink scripts in a two-person team to become familiar with Big Data analytics.

- > Manipulated RDDs via functional programming principles like pattern matching as well as DataFrames via Spark SQL and custom aggregation functions
- > Worked with stateful as well as infinite streams via different kinds of window assigners, both keyed and non-keyed

Scala Big Data Machine learning Apache Spark Apache Flink Git IntelliJ

JPACMAN TEST SUITE 2019

Generated a test suite for the game “JPacman” in a two-person team on the basis of user stories.

- > Developed unit tests with JUnit and mock- as well as integration tests with Mockito
- > Ensured code quality through code-coverage tools like JaCoCo and static code analysis programs like checkstyle, PMD or SpotBugs

Java JUnit Mockito JaCoCo checkstyle PMD SpotBugs Git IntelliJ

LANGUAGES

German	● ● ● ● ●
English	● ● ● ● ●
French	● ● ● ○ ○
Spanish	● ● ○ ○ ○
Dutch	● ○ ○ ○ ○

+ ACTIVITIES & INTERESTS

- > Member of debating, tennis and consulting club at RSM
- > [Reading books](#)
- > Training for first half marathon
- > Watching and keeping up with European football