Hendrik Cziommer

Curriculum Vitae

▬▬▬ Education

08/2012– **Diplom Computer Science (comparable to Master of Science)**, *Technische*
today *Universitaet Dresden*, Dresden, Elective courses in Artificial Intelligence and Software Engineering, Minor: Economics, especially Macro- and Microeconomics.

10/2010– **Studying in addition to school**, *Martin-Luther-University Halle*, Halle (Saale),
09/2011 Courses in Software Engineering and Object-Oriented-Programming.

08/2004– **Abitur (A-levels)**, *Georg-Cantor-Gymnasium*, Halle (Saale), School with special
06/2012 focus on mathematics and science.

▬▬▬ Experience

Vocational

Since **Student employee**, Interface projects GmbH, Dresden.
01/2019 Natural Language Processing and Information Retrieval Research
- Applying Local Sensitive Hashing to word embeddings to improve search speed (kNN)
- Research on enhancing word and document embeddings using metadata

09/2018– **Internship**, Tessa Therapeutics Pte Ltd., Singapore.
12/2018 Data Scientist in R&D Department
- Conducting a cognitive task analysis to help the cancer researchers to optimize their work-flow with the latest AI techniques
- Implementing an interface for the machine learning pipeline
- Research and implementation of a neural-network for classifying microscopy images

05/2018– **Student employee**, Interface projects GmbH, Dresden.
08/2018 Researcher for Natural Language Processing and Information Retrieval
- Research and implementation of an interactive exploitative search system in word embeddings space (fastText) using dimensionalty reductions (Autoencoders, PCA)

10/2017– **Student employee**, 3m5. Media GmbH, Dresden.
04/2018 Web Development
- Building web applications with JavaScript, AngularJS, Angular2 , PHP, Typo3 and MySQL

04/2017– **Internship**, Client Network Services India, Chennai, India.
08/2017 Web Development
- Web application to manage internal releases resulting in a massive reduction of email traffic and faster releases with Spring, AngularJS, Oracle SQL

04/2016– **Internship/Student employee**, 3m5. Media GmbH, Dresden.
08/2016 Frontend and Backend development of web apps
- Editor for creating HTML Ads, Online shop, Tool for managing facebook pages for Axa insurance broker and Augmented reality framework for Android and iOS with JavaScript, HTML5/CSS3 and Java

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Projects at University

10/2016–03/2017 **Cognitive Search in PostgresSQL**, *Presentation and prototype on GitHub*.
- Research and implementation on cognitive/similarity search for databases using word embeddings (fastText), Python and PostgresSQL
- Performed queries like "Select the 10 most similar movies to the movie 'The Godfather' " Result: 'The Godfather 2', 'The Godfather 3', 'Scarface', 'Good Fellas'...

10/2016–03/2017 **Architecture Principles for the Construction of Agile Large Software Systems**.
- Research on development and maintenance of large software systems and delivery of a research paper including presentation

10/2016–03/2017 **MarioKart**.
- Racing game imitating "Mario Kart" with car robots using C (Arduino) for Robot, Java
- Robots act autonomously, race course contains virtual placed items and real obstacles

04/2016–08/2016 **Sysplace**.
- Development of a "Virtual Car Dealership" using C# with Unity, Java with Android
- Car configurator for Virtual Reality Goggles

10/2016–03/2017 **An Overview of Programming Languages for Event-based Systems**.
- Research on a number of different novel programming languages with an event system in mind and delivery a research paper including presentation

04/2015–08/2015 **Haskell-Workshop for Natural-Language-Processing**.
- Development of a spell checker using Haskell

10/2013–03/2014 **Hidoku-Workshop**.
- Solving of a Hidoku puzzle with a SAT-Solver using Java

04/2013–09/2014 **Software-Technology-Project**.
- Development of the web application for exam and grade management for the computer science faculty using Java with Spring Framework

Awards

08/2014 Winning first prize at the OutputDD fair in a coding contest for competitive snake game

Computer skills

Linux, JetBrains IDEs, Eclipse, Latex, Git, SVN, Docker

Programming Skills

Advanced Python(Pandas, NumPy, numba), Java, Haskell, JavaScript, CSS3/HTML5,

Intermediate PyTorch, Keras, Tensorflow, Matplotlib, Vega Toolkit, PostgreSQL, MySQL, PHP, C#, VueJS, NodeJS, Spring, AngularJS, Flask

Basics R, Django, C/C++, Go, TypeScript, JavaEE, Angular2, React

Languages

German Native

English Fluent   *Conversationally fluent (C1)*