

Yordan Grigorov

Curriculum vitæ

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Bachelor Thesis

- Ongoing **Automatic Optimization of Data Science Workflows through Push-down to RDBMS**, *Bachelor Thesis in writing*.
- Closed the gap between procedural data processing frameworks and RDBMSs, thus enabling data scientists to run complex RDBMS queries without writing a single line of SQL
 - Experience with Python Pandas, SQL, PL/pgSQL, Postgres RDBMS, NetworkX graphs, benchmarking on Linux and visual reporting
 - Scraping and parsing huge amounts of data to support the thesis statement

Education

- 2016–2021.07 **Business Informatics Bachelor**, *Technische Universität Berlin*, Expected Grade $\sim 70\%$, Highlights of curriculum:
- **Elective** Data Warehousing and Business Intelligence
 - **Elective** Foundations of Artificial Intelligence
 - Information Systems & Data Analysis, Cloud Computing
 - Distributed Systems, Web Technologies, Data Management and Cloud Computing
 - Java I & II
 - Projects in symbolic AI with Python and streaming applications
 - Computer Science fundamentals I & II
 - Software Engineering & Programming Paradigms
 - Mathematics and Statistics I & II
- 2012–2016 **Profile Mathematics and Natural Sciences**, *Sofia High School of Mathematics*, 98%.
- 1 Year Extracurricular Competitive Programming
 - 1 Year Extracurricular Physics
 - 2 Years Extracurricular Mathematics

Internships

- 2018 **Business Intelligence Dashboard Design**, *Axel Springer SE*, 2 Months.
- Developed insightful Key Performance Indicators for the Employer Branding department
 - Helped the department identify the weak points in their data pipeline and find a fitting solution.
 - Actively fought against discrimination of a teammate
- 2014 **App Development for Danon's Digital Marketing Campaign**, *ilyan.com*, 2 Months.
- Broke a deadlock by mediating between Designers, Devs and Project Owner
 - Designed, sketched and developed a mobile game.

Projects

- 2021 **Friendly Finance with Python**, *Personal Project, inspired by Professor Dr. Hans Hirth*, 6 months.
- Made teaching and learning finance easier by designing a visual method which develops the pupil's intuition in the subject.
 - Enables interactive online teaching for topics which cannot be easily turned into spreadsheets (the standard tools of the trade)
 - Experience with CAS (Computer Algebra Systems), visualization, API design
- 2020 **Competition for symbolic board game AIs**, *Supervisor: Dr.- Ing. Stefan Fricke*, 6 months.
- Designed a multi-threaded AI for chess variant and scored 2nd place (out of 5)
 - Quickly dealt with an unexpected problem and saved ~ 30 people a lot of time
 - Worked overtime helping team members and rivals, achieving an even playing field in a competitive environment
 - Extra credit for voluntary work and original contributions
 - Remote working in a medium-sized team (~ 30) - was constantly present in chat
- 2019 **Streaming implementation of Linear Predictive Coding**, *Supervisor: Marcela Charfuelan, Ph.D*, 6 months.
- Took an abstract scientific concept and developed a practical application.
 - Used Apache Flink, Grafana and InfluxDB to analyze human speech

Workshops and Certificates

- 2020 **Standardization Expert - Module 1**, *DIN*.
Auditioned actual CEN and DIN meetings
- 2018 **PREPARE Vocational Preparation**, *TUB Career Service*.
- 2016 **Introduction to Computer Science and Programming Using Python**, *MITx*.
- 2015 **Parallel programming with OpenMP on IBM Blue Gene**, *Bulgarian Academy of Sciences*.
- Course on Bash and OpenMP with C

Programming Languages

Python	●●●●●
SQL, Java, Bash	●●●●●
HTML, CSS, JS	●●●●●

Planned

- 2021-2022 **Academic paper on automatic data science workflow optimization through pushdown to RDBMS**.

Hobbies

Whenever I am not playing with Unix systems I always come back to learning natural languages and reading about foreign cultures.

Languages

English - Fluent, German - Proficient, Bulgarian - Native