Danny (Yordan) Grigorov

Curriculum vitæ

Sofia, Bulgaria

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Languages: English, German, Bulgarian



Experience

03.2022 - Now

Software Engineer, Cisco Systems, Developing Webex, serving over 200K organizations and 18.5M Daily Active Users

- Management: Successfully led the migration of the local branch's metrics dashboards from Splunk to a custom solution, achieving a substantial reduction of 53.2% in telemetry costs.
- Teamwork: Led a hackathon team to a top 10 finish out of 272, enhancing virtual backgrounds in meetings in a week-long project.
- Presentation: Utilize effective on-and-offline presentations to de-silo knowledge for over 80 staff members, enhancing branch productivity.
- Communication: Recognized for leveraging strong communication skills to coordinate with global teams across three departments, completing the project two months early.
- O Hard skills:
 - C++: Develop instrumentation for a complex codebase with 11.6M lines of C++ code and 500 git commits per week.
 - SQL, SPL, Grafana, Kibana: Design, visualize & maintain 62 critical quality metrics to drive data-driven decision making.
 - **DB Design:** Develop Data Rollups for telemetry clocking at 2.21 billion events/hour, pulling data from 100+ sources.
 - Unix Shell: Utilize perl5, grep, bash for the analysis of large log data.

2021, 2 Mo.

Software Engineer, Halo Diagnostics

• Java, Typescript, Docker: Optimize Docker setup, reducing development load time by 5x, boosting team productivity.

Education

2021 Automatic Data Science Workflow Optimization, Bachelor Thesis

- Modular Transpiler Framework Design Gained expertise in compiler design, program optimization, programming language implementation.
- Recognized Academic Potential Encouraged by prof. Volker Markl to pursue publication of my bachelor's thesis, recognizing its academic merit in data science optimization.

2016–2021 Business Informatics Bachelor, Technical University of Berlin

- Robust Computer Science Foundation Deep understanding of core theories, crucial for project success.
- Mathematical Proficiency Strong foundation in Linear Algebra, Calculus, and Statistics
- Database & Data Analytics Expertise Proficient in advanced research and application.
- O Versatile Programming Languages including Java, Python, R, Haskell
- Business-IT Integration synergize technical solutions with business strategies for optimized outcomes.

Projects

2020, 6 Mo. MMORPG Computer Vision Bot, Personal Project

- O Advanced Bot Development for a classic MMO using OpenCV and Python, simulating real-player interactions through screen capture and automated controls.
- O Innovative Data Extraction: Developed a Lua Addon to encode in-game data (e.g., health, location) as screen pixels, enabling efficient data retrieval and analysis.
- Precise Target Identification: Enhanced game font to embed cues, enabling pinpoint accuracy in target detection. Further details available upon request.

2020, 6 Mo. Minimax Chess AI Competition, Supervisor: Dr. S. Fricke

- O AI Heuristics Optimization for an unsolved chess variant, achieving superior performance through multi-threading techniques.
- AI Tournament Engine: Engineered a robust AI testing platform for course organizers using Python and Docker to facilitate competitive AI matchups.
- Team player: Earned extra credit for outstanding voluntary assistance and original contributions, fostering a fair and competitive environment while supporting both team and rival members.

Professional Development Workshops

2022-2024 **Business Communication Track:**

- O Storytelling Workshop Cisco Career and Learning Focused on enhancing communication skills for impactful business narratives.
- O Negotiate and Influence Your Way to Success Monica Rodriguez, simitrigroup.com Gained advanced techniques in negotiation and influence, essential for business leadership.
- O Data and Visualization Best Practice, with use of Tableau Cisco Career and Learning Acquired best practices in data visualization and analysis, enhancing data-driven decision-making.

2022-2024 Data Analytics & Programming Track:

- o 2 Day Introduction to ElasticSearch and Kibana Cisco Career and Learning Gained insights into powerful search and data visualization with ElasticSearch and Kibana.
- Advanced C++ Programming I and II Cisco Career and Learning Deepened knowledge in C++ with advanced programming concepts and techniques.
- O Splunk Level 1 Fundamentals ONLC Training Centers Developed foundational skills in using Splunk for analyzing and visualizing big data.

Interests

2022 - 2024Gameplay Ergonomics:

Passionate about enhancing game control interfaces for peak comfort and efficiency. Expert in creating Autohotkey scripts and in-game macros to boost precision and immersion, ensuring smooth and intuitive control in every game project.

Publications

2023 Grigorov, Yordan, et al. "P2D: A Transpiler Framework for Optimizing Data Science Pipelines.", Proceedings of the Seventh Workshop on Data Management for End-to-End Machine Learning. 202, (DEEM@SIGMOD)

- Achieved speedup of up to 263x by automating optimizing hardware utilization and network load reduction, maximizing data pipeline efficiency
- o Innovative Extensible Framework: Created a flexible Intermediate Representation (IR) for efficient n*m translation between input & output languages, covering diverse data operations.
- o Enhanced Accessibility in High-Volume Data Analysis: Pioneered methods to streamline large dataset analysis, enhancing skill adaptability and data accessibility among data scientists.