DIETRICH DAROCH

Software Engineer

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San Francisco, CA

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in dietrichdaroch

Experience

Software Engineer - Google Assistant Google

📋 Jan 2017 - Jan 2024

San Francisco, CA

- Designed and implemented new data ingestion infrastructure to scale with dataset growth and new data freshness demands
- Investigated latency and performance issues leading to improvements on critical user flows
- Managed infrastructure and ensured capacity, availability, and locality of our global deployment
- Created smaller, yet representative reproducible testing environments for benchmarking and release testing
- Lead development of data experimentation tools on personal environments that eliminated coordination delays for developers

Lecturer - Artificial Intelligence PUC Chile

☐ Aug 2021 - Dec 2021

Remote

• Co-lectured undergrad AI class. Taught Deductive AI (Search & Logic)

Software Engineering Intern - Optimization team Foris

📋 Jan 2014 - Mar 2014

Santiago, Chile

 Benchmarking and tailoring timetable optimization algorithm for our largest client

Publications

Journal Articles

 J. A. Baier, D. Daroch, J. L. Reutter, and D. Vrgoč, "Evaluating navigational RDF queries over the web," CoRR, vol. abs/1701.06454, 2017.

Conference Proceedings

- J. A. Baier, D. Daroch, J. L. Reutter, and D. Vrgoč, "Evaluating navigational RDF queries over the web," in *Proceedings of the* 28th ACM Conference on Hypertext and Social Media, Prague, Czechia, July 4-7, 2017, 2017, pp. 165–174.
- J. A. Baier, D. Daroch, J. L. Reutter, and D. Vrgoč, "Property paths over linked data: Can it be done and how to start?" In Proceedings of the 7th International Workshop on Consuming Linked Data, COLD@ISWC 2016, Kobe, Japan, October 18, 2016, 2016.

Summary

Software Engineer interested on correctness, performance and reliability. Seven years of experience at Google and a background on Deductive AI research.

Awards

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Silver Perfy Award

Google 2020 Latency improvements on serving stack

Top-25 winners

Standford's Global Innovation Tournament 2009 Recycling arcade project was one of the 25 winners

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National third place

ACM ICPC Latin America Regionals, 2010

Skills



Education

M.Sc. in Computer Science PUC Chile

Aug 2015 - Dec 2016

- Research on Al Search applications to Distributed Graph Databases
- Completed all coursework

B.Sc. in Computer Science PUC Chile

Mar 2009 - Dec 2016

- Teaching assistant on Artificial Intelligence, Operating Systems and Competitive Programming classes
- 3rd best score on ABET exam
- Research on Real-time Heuristic Search Algorithms