## **DIETRICH DAROCH**

#### **Software Engineer**

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San Francisco, CA

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github.com/Dietr1ch

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**

4

#### 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



#### 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
- 3<sup>rd</sup> best score on ABET exam
- Research on Real-time Heuristic Search Algorithms