Albert van der Linde

Msc in Computer Science

Date of Birth: February 6, 1992
Nationality: Dutch
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Current Position

PhD student @ NOVA LINCS (Laboratory for Computer Science and Informatics)
Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal
Advisors: Professors Nuno Preguiça and João Leitão
2015–Present.

Publications

Practical Client-side Replication: Weak Consistency Semantics for Insecure Settings 2019. Albert van der Linde, João Leitão, and Nuno Preguiça
Current work under submission.
Paper: `http://novasys.di.fct.unl.pt/~alinde/currentdraftSecCausal.pdf`. (please, do not distribute).

Edge-cloud hybrid model for distributed apps 2018. Albert van der Linde
12th Eurosys Doctoral Workshop.
`http://conferences.inf.ed.ac.uk/EuroDW2018/papers/eurodw18-Linde.pdf`

Legion: Enriching Internet Services with Peer-to-Peer Interactions 2017. Albert van der Linde, Pedro Fouto, João Leitão, Nuno Preguiça, S. Castiñeira, and A. Bieniusa. In Proceedings of the 26th International Conference on World Wide Web (pp. 283-292). International World Wide Web Conferences Steering Committee. (WWW'17)
`https://dl.acm.org/citation.cfm?id=3052673`

Δ-CRDTs: making δ-CRDTs delta-based. 2016. In Proceedings of the 2nd Workshop on the Principles and Practice of Consistency for Distributed Data (PaPoC '16). ACM, New York, NY, USA, Article 12 , 4 pages.
`https://dl.acm.org/citation.cfm?doid=2911151.2911163`

Enriquecimento de plataformas web colaborativas com comunicação browser-a-browser. Albert Linde, João Leitão e Nuno Preguiça. Actas do sétimo Simpósio de Informática, Covilhã, Portugal, September, 2015

Work Experience

Research project, creator of the Legion project.
Page: `https://legion.di.fct.unl.pt`
White-paper: `https://pages.lip6.fr/syncfree/attachments/article/59/legion-white-paper.pdf`

Projects I am involved in:

SAMOA – Secure and Scalable Platform for Massive-scale Mobile Applications
As researcher. Principal Researcher: Nuno Preguiça (NOVA LINCS & FCT-UNL)
(`http://asc.di.fct.unl.pt/~nmp/samoa/samoa.html`).

LightKone – Lightweight computations for networks at the edge.
As researcher. Coordinator: Peter van Roy (UCL)
`https://www.lightkone.eu`.

HADES – Hardware-backed trusted and scalable decentralized systems.
As researcher. Principal Researcher: Bernardo Ferreira (FC-UL)

NG-STORAGE – New Generation of data Storage and Management Systems.
As researcher. Principal Researcher: João Leitão (NOVA LINCS & FCT-UNL)

Cosmos – Causal Consistency on the Network Edge.
As researcher. Principal Researcher: Luís Rodrigues (INESC-ID & Técnico UL)

Research program scholarship, NOVA Laboratory for Computer Science and Informatics (NOVA-LINCS), Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Caparica, Portugal. January 2015 - December 2015.
Advised by: Professor Nuno Preguiça, Doctor João Antunes Leitão
Work topics: Using peer-to-peer techniques in browsers to reduce server load and client-to-client latencies on web-applications (social networks, collaborative editing, etc..). Design and implementation of a system that allows for applications that run in multiple browsers to communicate and to keep replicas of a set of objects, which can be edited concurrently. Browsers propagate changes directly (WebRTC) and use a centralized component when such communication is impossible. A CRDT based solution is applied to achieve convergence of state in each replica.

Undergraduate Internships Program - Carnegie Mellon University Portugal, School of Computer Sience, Carnegie Mellon University, Pittsburgh PA, United States of America. August 2014 - October 2014.
Advised by: Umut A. Acar (CMU-USA) and Rodrigo Rodrigues (UNL-PT)
Work topics: Contributed to the design and implementation of a distributed self-adjusting computation engine under development at CMU, mainly studying Naiad.

Research program scholarship, CITI, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Caparica, Portugal. August 2013 - January 2014.
Advised by: Doctor João Antunes Leitão and Professor Nuno Preguiça
Work topics: Introducing Scalable Bloom Filters into a geo-replicated key-value store named ChainReaction. Usage of the Yahoo! Cloud Serving Benchmark (YCSB) on the Cluster of the Informatics Department for experimentation.

Research program for bachelor students, CITI, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Caparica, Portugal. February 2013 - July 2013.
Advised by: Professor Nuno Preguiça
Work topic: Design and implementation of Scalable Bloom Filters in C++ and Java.

Education and Training

PhD student in Computer Science, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Portugal January 2016 - current.
PhD Scholarship awarded by FC&T (the Portuguese national funding agency for science, research and technology).
PhD courses grade average: 19 (out of 20).

Ms.C. Computer Science, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Portugal 2013 - 2015.
Final grade: 18,35 (out of 20).
Thesis title: Enriching Web Applications with Browser-to-Browser Communication
Thesis mark: 19 (out of 20).
Awards:
Highest grade award of graduating students in Computer Science year 2014-2015.
Highest grade award of graduating engineer for the year 2014-2015.
Scholarship due high mark merit (2014-2015).

Bs.C. Computer Science, Faculdade de Ciências e Tecnologia da Universidade Nova de Lisboa, Portugal 2010 - 2013.

Final grade: 17 (out of 20).
Awards:
Highest grade reward of graduating students in Computer Science year 2012-2013.

Summer School, Junior University, University of Porto, Portugal, 2005 - 2007.
Participated several years and in the progress was exposed to several research areas. This was the first time I had contact with the field of Computer Science (Python).

Teaching

University Laboratory Classes

Design and Analysis of Algorithms: Spring 2017.

Design and Analysis of Algorithms: Spring 2016.

External Industry Classes

Altran BigData Academy Project: November 2017.

Altran BigData Academy Project: November 2016.

Personal Skills

Mother tongues(s): Portuguese, Dutch. *Other language(s):* English

Last updated: November 21, 2019