Ard Kastrati

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EDUCATION

ETH ZÜRICH
MSc in Computer Science
April 2020 | Zürich, Switzerland
Specialization: Information Security
Current GPA: 5.7 / 6.0
(Best grade: 6.0 - Worst grade: 1.0)

KIT
BSc in Computer Science
August 2017 | Karlsruhe, Germany
Major: Computer Science
Minor: Electrical Engineering
GPA: 1.3 / 1.0
(Best grade: 1.0 - Worst grade: 5.0)

STUDIENKOLLEG KARLSRUHE
June 2014 | Karlsruhe, Germany
One year pre-university course
GPA: 1.0 / 1.0

COURSEWORK

GRADUATE
Machine Learning, Network Security
System Security, Cryptography
Cryptographic Protocols
Applied Security Lab
Algorithms Lab, Advanced Systems Lab
Computational Intelligence Lab

TECHNICAL SKILLS

Java • C++ • Python C • Matlab • Burp
Metasploit • LATEX • Nmap • SQL • HTML
CSS • Haskell • Prolog • JavaScript

WORK EXPERIENCE

KIT | Tutor in Mathematics
Oct 2014 - Feb 2015 | Karlsruhe
Responsible for weekly exercises in
mathematics at Studienkolleg Karlsruhe

DOKUFEST | IT Specialist
July 2011 - Aug 2013 | Prizren, Kosovo
Volunteer at International Documentary
and Short Film Festival - Dokufest
- Implementation, monitoring, and
  maintenance of IT systems
- Badges production for the staff and
  guests at hospitality
- In year 2011, I was also part of the
  logistics team

RESEARCH

ETH ZÜRICH
June 2019 – Now | Zürich, Switzerland
Working together with **Chen-Da Liu Zhang**, **Martin Hirt** and group leader **Ueli Maurer** in the topic "Multi-threshold Asynchronous Broadcast, Consensus and MPC"
- Purely theoretical analysis of the most important primitives in multi-party computation such as broadcast and consensus
- Many interesting (im)possibility results
- Part of Master thesis (https://doi.org/10.3929/ethz-b-000407845)
- Currently finalizing and extending our results and planning to submit at DISC 2020 conference.

KIT
May 2017 – August 2017 | Karlsruhe, Germany
Working together for my Bachelor thesis with **Jochen Rill** and group leader **Jörn Müller-Quade** in the topic "PKI in the Blockchain: Is It Worth It?".

TECHNICAL PROJECTS

CERTIFICATE AUTHORITY | Github
- Implemented a simple certificate authority, including Web Server, Authorisation Server, Firewall/Proxy, Core CA, Backup Server.
- Reviewed the design and implementation of other groups, by doing penetration testing and risk analysis.

COLLABORATIVE FILTERING | Github, Kaggle competition
- Developed a novel solution for predicting movie ratings by proposing a fully Bayesian treatment of user-movie ratings as a mixture of low rank marix approximations
- 4th place at Kaggle competition among all groups at ETH

DYNAMIC SCHEDULER | Github
- Built a middleware to manage scientific simulations on the high performance computer `bwUniCluster` in Karlsruhe.

SCHOLARSHIPS & AWARDS

FULL SCHOLARSHIPS

2017	Full Scholarship for studying at ETH Excellence Scholarship & Opportunity Programme (ESOP) One of five students to win in that year
2013	Full Scholarship to study in any university in Germany Deutscher Akademischer Austauschdienst (DAAD) 1 of 120 students from all over the world

AWARDS

2014	1st prize	Outstanding performance in Feststellungsprüfung, Studienkolleg Karlsruhe
2008	1st prize	Arskosova international music competition in guitar
2007	1st prize	Arskosova international music competition in guitar