

# Dimitar Dimitrov

📄 <https://bitbucket.org/dimy93>

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## Education

- 2020/10-present **PhD Student in Computer Science, ETH Zurich, Switzerland**  
Papers:
- Bayesian Framework for Gradient Leakage, ICLR2022
  - Scalable Inference of Symbolic Adversarial Examples, ICLR2022
  - Fast and Precise Certification of Transformers, PLDI2021
- 2018/09-2020/10 **Master of Science in Computer Science, ETH Zurich, Switzerland**
- Current Overall GPA: 5.41 out of 6
- 2012 – 2016 **Bachelors of Engineering in Computer Science, The University of Edinburgh, UK**
- Overall GPA: 83.67 out of 100 (top of class)
  - JP Morgan Prize for Best Performance in Computer Science
  - Class Prize for Top Performance in Computer Science
  - Honors Project:
    - Supervisor: Prof. Christopher K. I. Williams
    - Title: Image Inpainting with Gaussian Processes
    - Grade: 80.00 out 100
- 2014 – 2015 **Exchange Student, University of California, Irvine, USA**
- Overall GPA: 3.905 out of 4.00
  - A+ in 6 courses
  - Took part in the UAVForge Project where we constructed autonomous quadcopter. As part of the project I researched and implemented AI algorithms for path finding and obstacle avoidance. As a result, I was selected to be the leader of the AI/Computer Vision project's team. My duties included monitoring the work of the other members of the team and organizing weekly meetings.
  - Took graduate courses in Machine Learning and Computer Vision.
- 2004 – 2012 **Bulgaria Diploma, Sofia High School of Mathematics, Bulgaria**
- Overall GPA: 5.89 out of 6
  - Took part in national and a few international Mathematics and Informatics competitions
  - Attended lectures given to my country's national mathematics olympiad team as part of their preparation for the International Mathematics Olympiad
  - Learned different programming languages and frameworks in my spare time
  - Developed series of projects with friends to practice my programming skills

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## Work Experience

- 2016/09 – 2018/06 **Full-time Software Developer, Arista Networks, Dublin, Republic of Ireland**
- Managed a small team of 5 people developing custom Linux drivers for DMA memory allocation and management using IOMMU. Worked on PCIe drivers for packet routing between custom routing chips and CPU. Worked on PCIe drivers synchronizing state between CPU complexes for stateful switchover support.
- 2015/06 – 2015/09 **Summer Intern, Arista Networks, San Jose, CA, US**
- Worked on low-level optimizations for one of the company products. In particular, programmed an routing ASIC's L3 tables to store more routing paths by optimizing how they are stored in the hardware.

2014/12 – 2015/06 **Teaching Assistant and Web Developer**, *Avid Academy for Gifted Youth, Irvine, CA, US*

As a teaching assistant for Avid Academy I prepare high school students for AMC (American Mathematics Competitions). I also worked on the company's web based course management system.

2013/06 – 2014/09 **Lead Android Developer**, *The City of Edinburgh Council, Edinburgh, UK*

The collaboration between my team and the council emerged as a Hackathon project. The council got impressed by what we created and contacted us. We managed to negotiate a development cycle and payment for our work.

- Designed and build complex Android application from scratch
- Designed complex UI and tested and improved it based on user feedback
- Worked to make the application to be compatible with large family of Android devices
- Faced and overcome real world problems common to all big projects in terms of both implementation and client communication
- Developed extensive knowledge in Android SDK, SQLite, OpenGL and Java multithreading libraries

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## Technical Skills

Programming  
Languages

**Advanced**

Java  
Python  
C/C++  
Matlab  
JavaScript  
Android

**Intermediate**

SQL  
Django  
C#  
MIPS

**Some experience with**

OpenGL  
OpenCV