Daniel Silađi

Mathematics Student
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Education

- **Univerza na Primorskem** — Koper, Slovenia
  Mathematics BSc — *2014 - present*
- **Gimnazija Jovan Jovanović Zmaj** — Novi Sad, Serbia
  High school — *2010 - 2014*
  - Class specialized for mathematics, physics and computer science
  - GPA: 5.00/5.00
  - Final year project: *"Some applications of group theory"*
- **Osnovna škola pri gimnaziji Jovan Jovanović Zmaj** — Novi Sad, Serbia
  Elementary School — *2008 - 2010*
  - Spent last two years of elementary education in an experimental class specialized for mathematics, physics and computer science
  - GPA: 5.00/5.00
- **Osnovna škola Jovan Popović** — Novi Sad, Serbia
  Elementary School — *2002 - 2008*
  - Finished first six grades before moving to the experimental class
  - GPA: 5.00/5.00

Experience

- **Petnica Science Center** — Petnica, Serbia
  Junior Associate at the Physics Seminar — *2015 - present*
- **PKP project *Absorption of foreign substances in the sea*** — Koper, Slovenia
  Student project organized by the University of Primorska — *2015*
  - Worked as a part of a team, designing and manufacturing the housing and electronics for an underwater data-collection module
- **Petnica Science Center** — Petnica, Serbia
  High School science projects — *2011 - 2014*
  - Daniel Silađi, Ognjen Stanisavljević: *"Simulation of pedestrian traffic in evacuation situations"*. Mentored by Miroslav Bogdanović, and presented at the annual Petnica Autumn Conference in 2014.
  - Daniel Silađi, Kristina Silađi: *"Embedding graphs in books"*. Mentored by Stefan Mihajlović, and presented at the annual Petnica Autumn Conference in 2013.
  - Daniel Silađi: *"Simulating fluids in two dimensions"*. Presented at the annual Petnica Autumn Conference in 2012.
  - Daniel Silađi: *"Genetic Algorithms and the Travelling-Salesman Problem"*. Presented at the annual Petnica Autumn Conference in 2011.
  - All 4 papers have been or will be published in the respective conference proceedings (*Petničke Sveske*)
- **Višnjan Summer School of Science** — Višnjan, Croatia
  Science/engineering project — *2014*
  - Worked as a part of a team and built a fully functional remotely operated underwater vehicle

- Programmed the data collection and motor controller modules

- **Modern Mathematics International Summer School for students** — Bremen, Germany
  Mathematics summer school for high school and university students — *2013*

Competitions and awards

- **Univerzitetni programerski maraton** — Slovenia
  National qualifications for the ACM regionals — *2015 - present*

- **Serbian national competitions** — Serbia
  Informatics, Mathematics, Physics — *2010 - 2014*
  - Regularly competed in mathematics, physics and informatics competitions, up to the national level
  - **Informatics (Computer Science):** Serbian Olympiad in Informatics (2014 – second prize, 2012, 2011 – third prize), National Competition (2014, 2011 – second prize, 2012 – honorable mention)
  - **Mathematics:** National Competition 2012 – honorable mention
  - **Physics:** National Competition 2012 – honorable mention

- **Diplomas at the end of High School** — Novi Sad, Serbia
  Awarded at the graduation ceremony — *2014*
  - Vuk Karadžić award for 5.00/5.00 GPA
  - Special Diplomas for successfully participating mathematics, physics and computer science competitions during high school
  - Jovan Jovanović Zmaj plaque, awarded to the best student in the generation
  - Dušan Kešelj plaque, awarded to the most distinguished student in the area of informatics in the generation

- **Energija Znanja scholarship** — Serbia
  One year monthly scholarship awarded by NIS — *2013 - 2014*

- **KöMaL's informatics problem solving contest** — Budapest, Hungary
  Correspondence contest organized by KöMaL (Középiskolai Matematikai és Fizikai Lapok) — *2011 - 2013*
  - Placed on the 5th place at the end of both 2012 and 2013
  - Invited twice to the annual conference organized at Eötvös Loránd Tudományegyetem (ELTE) for the best competitors in mathematics, informatics and physics

- **Dositeja Award** — Serbia
  Awarded by the Ministry of Education for exceptional results at competitions — *2011, 2012*

Skills

- **Mathematics**, in particular discrete mathematics and **graph theory**, **numerical methods**
- Working knowledge of various **programming languages**: C/C++, Python, C#, Java, Pascal, Prolog, Assembler (x86 in particular), MATLAB, Mathematica
- Strong knowledge of **data structures and algorithms**, as well as some background in **theoretical computer science**
- **Other technologies**: LaTeX, Unix administration, Git, Microsoft Office
- **Piano** – played it during elementary and higher education, obtained basic music theory knowledge
- **Karate** – blue belt (5th kyu)

Languages

- **English:** Fluent (Cambridge CPE diploma, CEFR level C2)
- **Serbian, Hungarian:** Native
- **French:** Intermediate (CEFR level B1 certificate)
- **German, Russian, Slovenian:** Basic