

Adil Soubki

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Education

Rensselaer Polytechnic Institute

B.S. Mathematics and Physics, Computer Science minor
Concentrations in statistical mechanics and operations research

Troy, NY
May 2014

Relevant Experience

Cryptography and Network Security II

Coursework

Studied modern techniques in cryptography with an active adversarial model. Created a searchable homomorphically encrypted database and skirmished with peers.

RPI
2014

Undergraduate Thesis

Edge Coloring on Critical Multigraphs

Explored proofs relating to recent improvements on Shannon's edge coloring bound in multigraphs. Focused on finding general properties for critical multigraphs and providing an interpretation of proofs regarding them.

Troy
2014

Pintley

Data Geek Intern

Performed queries and analysis on a mySQL database of over 100,000 users and investigated trends in user groups.

Boston
2013

Rensselaer Polytechnic Institute

Research Assistant

Worked with a research group searching for the cause of the green LED efficiency droop. Performed lab tasks and procedures ranging from fabrication of LEDs to testing and growing.

Troy
2012

Involvement

Ground Zero

President

Worked and collaborated with booking manager and PR to plan and promote shows and events weekly for campus student run and funded DIY music venue

Troy
2013–2014

Rensselaer Polytechnic Institute

Physics TA

Worked with the professor to plan and set up labs and demonstrations for lecture. Held office hours weekly to help students with the material.

Troy
2013

Coursework

Rensselaer Polytechnic Institute

Mathematical Statistics

Focused on deriving the mathematical basis of modern statistics. Modeled and solved for the sampling distribution of a self-chosen scenerio.

Troy
2013

Rensselaer Polytechnic Institute

Experimental Physics

Worked in two person lab groups to produce write-ups with graphs and figures in training for publication.

Troy
2012

Skills

Programming

C++, Python, SQL: Proficient

Practiced with these doing more involved projects

C, HTML, CSS, Javascript: Familiar

Have used these for smaller projects

Miscellaneous

Computation: Maple, PySci, Excel

Familiar with these and a few others.

Retro Electronics: Gameboy, C64, NES

I mod, repair, and otherwise dismember plenty of old electronics.