

# 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

### RedShift Technologies

*Entry Software Engineer*

Program software fulltime with a focus on databasing and web applications. Involved in all aspects of the development lifecycle from design to rollout.

**New York City**

*Present*

### Mathematical Models of Operations Research

*Coursework*

Covered linear optimization including the simplex method, duality, sensitivity analysis, integer programming techniques, and algorithms for network models.

**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*

### 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.

**Troy**

*2013*

## Coursework

### Rensselaer Polytechnic Institute

*Cryptography and Network Security II*

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

**Troy**

*2014*

### Rensselaer Polytechnic Institute

*Theoretical Mechanics*

Focused on a mathematically rigorous understanding of classical dynamics. Dealt with everything from Newtonian and Hamiltonian principals to orbital mechanics and Kepler's Laws.

**Troy**

*2013*

## Skills

**C#, ASP.NET, HTML, CSS, Javascript, SQL:** Professional

*Used these on paid jobs*

**C/C++, Python:** Preferred

*My defaults for personal projects*

**MPI, Ruby, Haskell:** Familiar

*Have used these for smaller projects*

**Retro Electronics:** Gameboy, C64, NES

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