

# Yao Rao

184 Hallock Road, Apt 1E1, Lake Grove, New York 11755  
(646)-240-1135 • cn.yrao@gmail.com

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## Education:

Stony Brook University, Stony Brook, NY

Expected Graduation: December 2016

Double Major in Computer Science and Applied Mathematics and Statistics

Major GPA: 3.24

Honors: Dean's List

Fall 2013, Spring 2013, Fall 2014, Spring 2014

## Relevant College Courses:

*Completed Courses:*

- Calculus II, III, IV
- Computer Networks
- Artificial Intelligence
- Databases

*Currently Enrolled: Software Engineering, Wireless and Mobile Networking, Analysis of Algorithms*

## Skills:

- Extensive knowledge in Java programming
- Proficient in C, XML, HTML, MatLab, MIPS and Python programming
- Working knowledge of Physics and Chemistry Laboratory Techniques
- Strong organization and presentation abilities
- Fluent in written and spoken English and Chinese

## Projects:

- Sokoban (Finished, Solo, JavaFX)
- Journey Through Europe (Finished, Solo, JavaFX)
- Mobile Casino (On Hold, Solo, Java)
- Comic Web Application (On-going, Group, JavaScript)

## Experiences:

**Temple University, Chemistry Department**

07/2014 – 08/2014

*Web Designer for Dr. Hai-Lung Dai Group*

- Website design using Adobe Dreamweaver, HTML and CSS

**Columbia University, Physics Department**

07/2013 – 08/2013

*Science intern with computation in Professor Tony F. Heinz Group*

- Implement Monte Carlo algorithm to construct Brownian motion model using MatLab
- Develop time correlation function to evaluate molecular rotation dynamics
- Optimization of model parameters to simulate experimental data

**Columbia University, Chemistry Department**

06/2011 – 08/2011, 07/2010 – 08/2010

*Science Intern in Professor Kenneth B. Eisenthal Group*

- Synthesize gold nanorods and gold nanoparticles
- Assist Dr. Louis Haber in identifying gold nanorods with UV-VIS optical spectra, Transmission Electron Microscope and Dynamic Light Scattering for cancer research

**Interests:** Martial Arts, Philosophy, Violin, Basketball, Ping Pong, Billiard, Ice Skating, Bodybuilding