Robert Lou

Contact Information

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Education

Columbia University, New York, NY
Bachelor of Arts in Computer Science-Mathematics **2011-Present**

- Expected graduation date: May 2015
- Cumulative GPA: 3.92 (Major GPA: 3.94)

North Carolina School of Science and Mathematics, Durham, NC
Public Residential High School **2009-2011**

Honors and Awards

Columbia Computer Science Department Award Winner (2 per graduating class)
Dean's List
Semifinalist; United States National Physics Olympiad
7th Place Dynamic Planet, 9th Place Astronomy; National Science Olympiad
Bronze Medalist; USA Mathematical Talent Search

Experience

Columbia University Math Department, New York, NY
Teaching Assistant for Multivariable Calculus **Fall 2013, Spring 2014**

Terrence Cardinal Cooke Health Care Center, New York, NY
Volunteer **Spring 2014**

Meddik, New York, NY
Web Development Intern **Fall 2012**
Designed and built gamification system to incentivize user actions on www.meddik.com using Ruby on Rails framework, HTML, and CSS. Meddik is a healthtech startup that aims to serve targeted and personalized health information by creating communities of users with similar health backgrounds.

Children's Healthcare of Atlanta, Atlanta, GA
Research Intern **Summer 2014, Summer 2013**
Conducted research on antimicrobial susceptibility testing and blood culture identification utilizing mass spectrometry (MALDI). Designed and carried out experiments exploring the ability of MALDI to detect a variety of beta-lactam resistant bacteria. Yi J, Lou R, Bricoll J, Widen RH, Silbert S, Jerris RC. (2014) Detection of Carbapenemase Producing Organisms by Matrix Assisted-Laser Desorption Ionization-Time of Flight Mass Spectrometry. ICAAC; Washington, DC.

Cincinnati Children's Hospital Medical Center, Cincinnati, OH
Research Intern **Summer 2012, Summer 2011**
Conducted research on Tuberous Sclerosis Complex (TSC). Utilized a renal cell model of TSC to investigate the effects of angiotensin II (ANG II) on intracellular Ca2+ levels and VEGF release. Brian J Siroky, Ryan J Reichert, Robert Lou, EJ Kathman, Lu Lu, John J Bissler. Role of the Renin-Angiotensin System in TSC Renal Angiomyolipoma Progression. ASN Renal Week 2012.

Skills and Activities

Programming Languages: Java, C, C++, Ruby
Frameworks: Ruby on Rails
Databases: MongoDB
Accordionist, Pianist: Columbia University Klezmer Band, YouTube videos, Weddings