

Nicholas Webb

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University of North Carolina at Chapel Hill: Graduated 2017, Chemistry B.S. (biochemistry track)

- GPA 3.06, Dean's List 2016
- Coursework: General, Organic, Analytical, Inorganic, Physical, Quantum, Synthetic, and Biochemistry

My experience in the lab includes spectrophotometry, electrophoresis, NMR, GC-MS, PCR, and other means of analyzing organic and biochemical reactions. With these techniques, I was taught to carry out tasks such as planning and executing complex syntheses and making genetic modifications to bacteria. I also work as a tutor in chemistry, biology, and mathematics. Beyond my academic work, I am a self-taught coder and web-designer. Samples of my work, both in the lab and on the web, are available here: <http://tiny.cc/nicholaswebb>

Experience

Chemistry Tutor, 2015 to present: I started out as a volunteer tutor with the UNC Chemistry department. I later went to work as an online tutor in biology, chemistry, and mathematics at Chegg.

Invited Carolina Research Scholars Program (I-CRSP), 2013 to 2017: This program is part of the larger Excel Carolina program. It granted me access to specialized research resources and advisors, and included additional research driven classes and independent projects.

Systems Modelling Research, 2016: This was one of my most interesting research projects from my time at UNC. I worked on a team to develop a model for the effects of disorder and anisotropy on conductance of third and fourth dimensional cubic lattices. My primary role was to develop the code to create the model in MATLAB. This was done under the guidance of Dr. Andrew Moran as part of my Quantum Chemistry studies.

Eager to Be Healthy Science Advisor, 2015: This summer internship position involved researching health related science to ensure the host was well informed on the monthly podcast's topic. I also engaged in post-production work.

Duke Talent Identification Program Institute of Human Genetics, 2012: This program for science students at Duke University included in-depth education about genetics and laboratory work isolating DNA.

Additional Activities

Web Design, 2014 to present: I was initially self-taught, but in the past year have done additional training with Udemy. My work primarily focused on mobile web-applications which I sell on the Cydia store. I currently have 4000 customers and occasionally do freelance contract work.

Compass Center for Women and Families Advocate, 2017: This volunteer work involved serving victims of interpersonal violence by responding to calls on a 24-hour hotline and meeting with survivors in person to provide crisis intervention, emotional support, court advocacy, and referrals.

Sigma Alpha Lambda Honor Society VP, 2014 to 2017: I became the VP of Community Service of the UNC chapter in 2015, then both the VP of Membership and Chapter Treasurer in 2016. I was responsible for finding volunteering opportunities, recruiting new members, and managing funding.

Amazon Seller, 2015 to present: I manage a small business selling software and other items, usually from wholesale suppliers, online in the Amazon marketplace.

Skills

- Spectrophotometry, agarose gel electrophoresis, SDS-PAGE, NMR spectroscopy, GC-MS, PCR, general lab work, and can quickly learn new techniques
- Web development (HTML/CSS/JS), JQuery, Bootstrap, PC and Mac operating systems, Microsoft Office
- Proficient pianist, especially with improvisation