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| 734-883-5221  MACKENZIERNELSON@GMAIL.COM  HTTPS://WWW.LINKEDIN.COM/IN/ NELSONMACKENZIE/  |  | | --- | | I am a motivated professional with experience in both biology and web development. I am seeking opportunities to combine my biotech background with technology commercialization and marketing. | | Skills Lab experience including PCR, electrophoresis, aseptic technique, and bacterial culturing. CS experience including, Microsoft Office, Java, HTML, CSS, and Javascript programming. |  EducationMaster of Microbial Biotechnology2016 - PresentNorth Carolina State University **BS IN BIOLOGY**  **2010 – 2014**  **Minor in Mathematics with CS applications**  Meredith College  **WEB DEVELOPMENT CERTIFICATE**  **6/2017 – PRESENT**  University NC Chapel Hill |  | work experienceLaboratory Teaching assistantAugust 2016 - Present I instruct two sections of introductory biology lab to undergraduates. I attend weekly meetings, prepare lesson plans, write quizzes, and grade tests. I work hard to make sure the students understand the material and enjoy the lab Lab TechnicianApril 2015 – August 2016 At Eton I was responsible for picking up and delivering DNA samples and primers to local labs. I also checked concentrations, and diluted samples when appropriate. I processed the samples, ran PCR and occasionally purified plates before sequencing. During the second half of my time at Eton I performed weekly and monthly sequencer maintenance. Consulting Experience **BIOMANUFACTURING TRAINING AND EDUACTION CENTER**  SUMMER 2017  At NCSU’s BTEC, I was responsible for designing and implementing a training management system for the center. I surveyed available TMS software, created a workflow, gap analysis, and implementation plan. At the end of the summer I wrote and presented an SOP for the TMS, and successfully completed an initial database for testing at BTEC. AffinergySPRING 2016 I worked as the leader of a team with Affinergy to research opportunities for their novel diagnostic platform. We designed and presented a searchable database for pharmaceuticals that require monitoring that would benefit from point of care testing. AvazymeWINTER 2016 I recommended procedures and equipment for enriching, testing for, and validating the presence of *Salmonella*, *Listeria monocytogenes*, *Vibrio, Shigella*, yeast and mold, E. coli, and *S. aureus.* I presented my findings to Avazyme’s client. AgbiomeFALL 2016 I worked in a group of five with the NC agricultural company, AgBiome, in preparation for their release of a new biological fungicide, my group explored the competitor landscape for fungicides, to present AgBiome with a recommendation of where to focus their marketing. |