

Jack Ngo

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EDUCATION

Temple University Kornberg School of Dentistry Aug 2022-Present
Vanderbilt University, Nashville, TN May 2022
• Major in Biomedical Engineering, Premed track GPA: 3.5/4.00

WORK EXPERIENCE

Summer Student Worker Science R&D Intern, Pfizer Inc., Cambridge, MA May 2021-Aug 2021
• Modeled various molecular structures in order to determine the chemical stability of the epoxide hydrolase mediated reaction
• Conducted high level quantum mechanical calculations of electrostatic potential charge, reactivity index and reaction activation energy utilizing Schrodinger Maestro via a linux desktop
• Analyzed the relationship between calculated properties and experimental observations using Tibco Spotfire and Excel among other programs to determine which properties affect the speed of metabolism pathway to be used with a new drug

Partner Services Intern, Overdrive Inc., Cleveland, OH May 2020-Aug 2020
• Provided support to end users and business partners using the company's support ticket management system to solve problems, resolve requests, and communicate different issues to technical staff and account specialists
• Aided in coding a macro in JavaScript that assisted with the process of completing support tickets, effectively increasing the case load completed by new hires and other interns by ~50%

Administrative Intern, Midwest Dental, Toledo, OH Jun 2017-Present
• Processed client insurance payments using Excel and Pearson Eaglesoft
• Scheduled appointments for ~50 patients daily via phone and in-person
• Worked with model jaws to understand the biomechanics of the jaw and ensure patient's replacement teeth fit

Shift Leader and Barista, Biggby Coffee, Toledo, OH May 2018-April 2019
• Supervised and managed eight baristas; assisted in creating a variety of drinks
• Counted cash drawers and input values and coupons into excel after shifts were completed

Volunteer Assistant Teacher, Mareda Outreach Center, Toledo, OH Aug 2016-May 2018
• Planned lessons to target the learning of specific individuals
• Taught underprivileged adults math, reading and writing skills as they worked towards earning their GED
• Designed weekly art projects for 60+ children and assisted with homework when needed

Volunteer, Community Service Program in Guatemala Jun 2017
• Engaged in Spanish language immersion and community service program in Zone 3 of Guatemala City, an impoverished area of the capital city
• Built house for local family from ground up using construction skills such as masonry, plumbing, and carpentry
• Led group in teaching 30+ children of Francisco College School English, expedited the repainting of their school by exemplifying proper technique and scheduling

LEADERSHIP & EXTRACURRICULARS

Virtual Tutoring Service, Executive Board – Zoom Coordinator Jul 2020-Jun 2021
• Assisted in the initiation of an organization whose mission was to foster a positive learning environment for low-income students with limited access to supplementary resources while having to adapt to online school during the covid-19 pandemic
• Tutored a third-grade student by creating study plans and schedules, making sure he adhered to them, and assisting him with whatever he needed while tutoring for about 3 hours a week
• Solved any technical issues as they arose as fellow tutors and students alike were still getting acclimated to using Zoom

Vanderbilt Student Government, Student Services Committee Jan 2020-May 2022
• Propose and develop several initiatives to be implemented on campus for the betterment of the student body
• Collaborate with administration, staff, and other VSG committees to help carry out these initiatives
• Advised, communicated with, and identified then mitigated risks alongside staff, administration, and the student senate on a 2.5 yearlong initiative to attain the commodore card on the apple wallet

V-Squared Mentorship Program, Mentor Aug 2019-May 2022
• Mentored first year student in the Vanderbilt School of Engineering
• Advised on class choices/extracurricular activities and help ease transition to college life

Undergraduate Honor Council, Member (<10% acceptance rate) Jan 2019-May 2022
• Preserve and encourage academic integrity on campus via programming events and hearings that promote intellectual maturity, personal accountability, and respect for honesty, integrity, and truth
• Serve as either a panelist or advisor during hearings; evaluate facts and criteria of the case in an unbiased manner to ensure that justice is achieved for all students

Vanderbilt Students Volunteer for Science, Team Leader Aug 2018-May 2022
• Planned and executed lesson plans meant for various grade levels of elementary school children in order to demonstrate class topics such as electricity or ocean currents through experimentation
• Led classroom discussion of topics learned and quizzed students on material

SKILLS & INTERESTS

General: Masonry, Plumbing, Carpentry, Rowing, Snow-skiing, Basketball as both a coach and a player

Technical: Microsoft Office Suite, Salesforce, MATLAB, Python, R, Java, SolidWorx, Fusion 360, Biology & Chemistry Lab Experience, Instagram, Facebook, Twitter, Snapchat