NICOLE CHOE

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EDUCATION Northeastern University (Boston, MA)	May 2027
BS in Bioengineering (Synthetic and Computational Concentration), Minor in Graphic & Information D Coursework (*denotes Lab): BioE Measurement, Experimentation, and Statistics*, Engineering Cornerstone Biomechanics, Bioelectricity, Engineering Approaches to Precision Medicine I, Physical BioE	I & II, Quantitative Physiology,
Activities: ChemE Car, NU-in Greece, Birding Club (Founder), SWE, BMES, Sewing Club, Engineers Withe W.T. Woodson High School Advanced Diploma (Fairfax, VA)	out Borders June 2022
<i>Coursework:</i> Java Data Structures, Computer Science Capstone, Genetics and Biotechnology	June 2022
Activities & Awards: Science Olympiad (President, Mentor, States Competitor), 16 Science Olympiad competitions Science National Honor Society (Mentor), AFA CyberPatriots (Team Lead), Pit Orchestra (1st violin)	etition medals, Operation Smile (VP),
SKILLS	
 Computer: JAVA Object Oriented Programming and Data Structures, Excel, Linux/Debian, Arduino Microco (Photoshop, Illustrator, InDesign, Substance 3D Painter), SolidWorks, Git, Protein 3D modeling (Jmol/. Lab & Hardware: Basic work with cell cultures, Hazardous waste management, General lab safety and asept Bradford and Lowry protein assays, Gel electrophoresis, Centrifugation, 3D Printing, Soldering and PCI Language: Java, Python, MATLAB, C++, HTML/CSS, JavaScript 	<i>Pymol),</i> AutoCAD, Blender tic technique, Cell embedded hydrogels,
EXPERIENCE	
 Kokee Tea (Fairfax, VA) - Tea Barista & Ramen Cook Built customer loyalty, bilingual customer support 	March 2021 – September 2022
Operation Smile – Vice President	September 2020 – June 2022
• Fundraised for children born with cleft lip/palate(merchandise sales, local restaurant partnerships)	
• Managed social media accounts, fundraisers (merchandise sales, local restaurant partnerships) Science Olympiad - President (2021-2022), Secretary (2020-2021), Mentor (2018-2022)	September 2018 – June 2022
• Cultivated a constructive learning environment for 50-60 competitors	September 2010 - Julie 2022
• Prepared teams for competition - All groups I mentored received medals at Virginia Tech Regionals	
 Organized and hosted fundraisers (merchandise sales, local restaurant partnerships), tryouts, event/team Oversaw competition registration, ride/hotel room arrangements, material ordering systems, build supplied 	
Collaborated with WTW HS Science Dept in student science fair replacement grading	
• Created grading rubric, Oversaw the writing of practice exams/lesson plans as well as grading and recor	-
 AFA CyberPatriots – Team Lead Qualified for the State final and placed 12th place in the Gold division in Virginia. 	September 2018 – May 2021
• Competed in a group of 4 to secure VM images from Windows 10, Windows Server, Debian, and Ubunt These tasks range from simply turning on firewall to decoding image steganography.	tu as well as a Cisco networking portion.
PROJECTS	
Early Stratification of the Post-cardiac Arrest Neurological Outcome	January 2024 – Present
 Working with and analyzing data from International Cardiac Arrest Registry (INTCAR) of Maine Media (cerebral performance category scale) using the first 6 hours of clinical data available after recovery of s Data analysis with ML using numpy 	
Auto-Phoropter	April 2023
 Designed, 3D modeled, 3D printed and assembled an Arduino-powered machine for self-administered o Portfolio and Personal Websites 	February 2023 – Present
 Created a Web 1.0 GeoCities-inspired experimental website as well as a modern-style professional webs Hosted using Akamai Linode 	
• Self-teaching HTML/CSS, JavaScript, PuTTY, WinSCP, Jekyll, Node.js, Three.js, React, Tailwind CSS Raspberry Pi AI Bird Identification Camera	May 2022
• Created an offline AI accelerator, integrating TensorFlow and Google APIs	Wiay 2022
• Set up Python script that took a short video or image whenever the AI met a certain confidence threshold	
 Owning and maintaining my own Etsy store • Establishing a workflow, SEO, 3D modeling, adaptability with technology 	May 2018 – August 2021
 Designing, creating, listing, and shipping 3D printed, resin cast, and sculpted multimedia jewelry as wel self-designed sticker sheets, button pins, etc. 	l as homemade gaming NFC chips,

Web Design and Development – I am constantly working on a new custom typeface or unique web page layout, or a fun JS for my personal website. I am also teaching myself more about back-end web development like Node.js and server hosting.

Digital Illustration - I love reading books about product and poster design and creating my own designs for my own products.

Ice Skating – I used to figure skate competitively and speed skate at a national level, now I just enjoy skating with my younger sister.

Birding - In Virginia I am in a bird watching group and I love to learn from the more experienced birders and immerse myself in nature. Coming to a hyper-urban area of Boston, I missed nature and decided to start an informal birding club at my school.

Experimental music - During pandemic I was involved in organizing small online concerts, and lately I have been teaching myself music production.