Zachary Kwon

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objective	Dependable and inquisitive Chemical Engineering undergraduate who can quickly adapt to different working environments and has a passion for pursuing R&D, data analysis, and process design	
education	Cornell University , Ithaca, NY B.S. in Chemical Engineering GPA: 3.92/4.00	August 2021 – May 2025
	Thomas Jefferson High School for Science and Techno STEM-oriented pathway GPA: 4.52/5.00	blogy, Alexandria, VA August 2017 – May 2021
$\begin{array}{l} \textbf{coursework} \\ * = \text{in progress} \end{array}$	Product Design and Lean Manufacturing [*] , Bioprocess Engine Transfer [*] , Fluid Mechanics, Chemical Process Design and Ana Honors Physical Chemistry I, Honors Organic Chemistry I	
experience	 Arcadis, Arlington, VA Water Resources Intern Utilized Bluebeam Revu to markup Operations and Ma Orders Contruction for thorough review to ensure contrate Conducted field work at Henry Sliwinski Water Treatment Water) needs to on-site contractors Presented capstone presentation to supervisor, Area Lear recruiters at end of internship 	act requirements and deadlines were met nt Plant by communicating client (Frederick
	 AguaClara Cornell, Ithaca, NY Subteam Project Lead Project: Constructing system to analyze effectiveness carbon in dissolved organic matter removal for water tree 	eatment plants located in Central America
	 Developed automated pump and turbidimeter code with Wrote Python scripts to calculate flow rates necessary to carbon, humic acid, and coagulant Compiled multiple 5,500+ word reports and led present to 45+ peers and advisors 	vary system concentrations of clay, activated
	 Cornell University Smith School of Chemical Engineering, Ithaca, NY Undergraduate Research Assistant @ Yue Lab September 2023 – presen Project: Performing classical molecular dynamics simulations of water and ions in CNTs and confine graphene sheets to compute water and ion density with LAMMPS software and Python 	
	 Cornell University, Ithaca, NY Undergraduate Teaching Assistant UTA for PHYS 1112: Physics I, Mechanics and Heat. E Assisted in two one-hour cooperative learning sessions p discussion problems and course content Participated in weekly staff meetings and seminars on teaching a	er week, helping students work through
	 Virginia Pool Services, Inc., Haymarket, VA Summer Pool Lifeguard Received Red Cross Deep-Water Lifeguard Certification a pools for 37.5+ hours per week performing hourly che enforcing safety rules 	June 2022 – August 2022 and worked as a lifeguard at three community
	 homas Jefferson High School for Science and Technology, Alexandria, VA tudent Researcher August 2020 – May 2021 Worked remotely with lab director Brian Kennedy to integrate 11 ideas, provide procedures, and keep lab notes for UV/Vis Spectroscopy project manual; presented final product to virtual audience 	
skills	Minitab, DFMEA, Python, Java, ProCoDA, LAMMPS, Blueb	beam Revu, UV/Vis Spectroscopy
honors & awards	Engineering Dean's List Awarded to students maintaining above a 3.5 GPA. On track	All Semesters to graduate with honors