

Richard Chung

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TEACHING EXPERIENCE

Capital Educators <i>Tutor – Digital SAT Math Section</i>	Dec 2023– Present North Bethesda, MD
Best Academy <i>Tutor – SAT Math Section, Physics/AP Physics I, Algebra II/Trig, Algebra I, Competition Math – Grade 3</i>	Sep 2021– May 2022 Springfield, VA
Prime Learning Center <i>Tutor – ACT All Sections, AP Computer Science, Precalculus, Geometry</i>	June – Aug 2018, 2019 Mclean, VA
Northern Virginia Experimental Chinese School <i>Teaching Assistant - Chinese (Mandarin) – Grade 1</i>	Sep 2021– May 2022 Chantilly, VA

EDUCATION

University of Michigan <i>B.S.E. in Mechanical Engineering</i>	Sep 2017 – Dec 2020 Ann Arbor, MI
Thomas Jefferson High School for Science and Technology ACT: 34 SAT: 1500	Sep 2013 – Jun 2017 Alexandria, VA

WORK EXPERIENCE

Sustainable Building Partners <i>Building Performance Specialist</i> <ul style="list-style-type: none">Designed energy model simulations in OpenStudio and SketchUp to determine energy compliance pathways and identify areas for energy savings. Building designs include MultiFamily, Fire Stations, and K-12.	May 2024– Present Fairfax, VA
TetraTech <i>Energy Engineer</i> <ul style="list-style-type: none">Performed energy calculations (including individual project desk reviews, tracking system reviews, and software modeling) for commercial, industrial, and residential energy efficiency programs in Texas, Idaho, Arkansas, and Colorado. Supported development and maintenance of technical reference manuals (TRMs) for each state.Modeled shade tree impacts and growth to verify claimed savings impact for multiple programs in Idaho Power Company (IPC).	Dec 2023– May 2024 Madison, WI
2RW Consultants <i>Mechanical Engineer</i> <ul style="list-style-type: none">Drafted construction design documents using Autodesk Revit and calculated mechanical cooling and heating loads using Trace700 for higher education facilities and public entities.Designed Python Application to perform sizing calculations for water service mains, sanitary/storm mains, and water heaters. Applied Computer Vision techniques to determine water service load equations from ASHRAE.	May 2021– Dec 2023 Fairfax, VA
Eaton <i>Software Engineer</i> <ul style="list-style-type: none">Developed and maintained client interface and database to manage status of electric meters in Javar. Output visual electric meter representation in web interface and processed user data in SQL server.Lead Developer for Production Database to manage inventory for large stakeholders in MySQL.	Jan 2021 – May 2021 Rockville, MD
PPL Corporation <i>Distribution Operations Intern</i> <ul style="list-style-type: none">Designed a Risk Management Tool to predict the likelihood and impact of device failure from 3-year equipment failure data using VBA Scripts.Implemented a Perceptron Neural Network into Risk Management Tool to determine the most effective weighting in risk calculation using Python.Diagnosed power service issues and analyzed circuits on the Worst Performing Circuits list in the Lehigh.Northeast region electrical grid.	May 2020 – Aug 2020 Allentown, PA

CERTIFICATIONS

Oracle Certified Associate, Java SE 8 Programmer	Jan 2019 - Present
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