RONALD DENG

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EDUCATION

Williams College, Williamstown, MA   **Aug 2024 – May 2028**
Candidate for Bachelor of Arts in Computer Science and Mathematics
Relevant courses: Data Structures and Advanced Programming, Macroeconomics, Linear Algebra, Music Theory and Musicianship I

Hunter College High School, Manhattan, NY   **Sept 2018 – Jun 2024**
Relevant courses: Introduction to Mathematical Proofs, Multivariable Calculus, AP Physics C: Mechanics, AP Statistics, AP Chemistry
Unweighted GPA: 4.0 | SAT: 1570 | ACT: 35
Honors: Association of Teachers Certificate for Excellence in Mathematics, Science Faculty Award for Scholarship in Physics

COMPUTER SCIENCE EXPERIENCE

Williams Student Organization Website   **Oct 2024 – Present**
Front-End Developer

- Utilized TypeScript, JavaScript, and React to design an upgraded course scheduler. Currently, I am implementing the ability for students to plan their courses for all 8 semesters at Williams on one comprehensive scheduler. This course scheduler is used hundreds of students at Williams College.

Office of Senator John C. Liu   **Jun 2023 – Sept 2023**
Intern

- Developed and implemented data automation solutions using Python's Beautiful Soup and Google Scripts, improving office efficiency by sorting 300+ constituent emails.
- Created a proof-of-concept that used NLP to automatically digitize and sort physical bill memos by organization and bill.
- Conducted research and briefed Senator Liu on machine learning algorithms and AI applications in local government.
- Served as a point of first contact for constituents by assisting with issues such as filing restraining orders, complications with Department of Buildings violations, PPE distribution, and safety concerns.

PROFESSIONAL EXPERIENCE

VOICE Charter School   **Jul 2024 – Aug 2024**
Teacher

- Prepared and taught a class of fifteen rising 8th graders math and English.
- Wrote and graded practice problems and exams.
- Saw a 20% increase in mock New York State Assessment scores by the end of the program.

Communication Sciences and Disorders Lab, St. John's University, Dr. Yan Yu   **Jun 2023 – Sept 2023**
Research Assistant

- Collaborated on a study examining the influence of music and language backgrounds on cortical dynamics for brain functions.
- Assisted in data collection, analysis, and interpretation of complex neurological data.
- Co-authored research accepted for poster presentation at the 2023 Acoustical Society of America meeting in Sydney.

New York Youth Symphony   **Sept 2021 – July 2024**
First Violinist

- Played in an album which won the 2022 Grammy for Best Orchestral Performance.
- Mentored younger and less experienced violinists in orchestral practices and skills.

AWARDS

- Scholastic Gold Key for Poetry (x2) and Critical Essay, International Young Artists Competition Grand Winner (Violin), Music International Grand Prix 3rd Place Finalist (Violin)

RELEVANT SKILLS

- **Programming Languages:** Python, R, C++, Java, LaTeX
- **Web Development:** HTML, CSS, JavaScript, TypeScript, React
- **Data Analysis:** Python (pandas, NumPy), R
- **Software:** Blender (3D Graphics), DaVinci Resolve (Video Editing), Logic Pro X (music production)
- **Other Skills:** Communication, Google Sheets/Excel Spreadsheets