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, Algorithm Design And Analysis, Macroeconomics, Linear Algebra, Graph Theory

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.

Williams Computer Science Department **Jan 2024 – Present**
Teaching Assistant

- Attended computer science classes and lab hours, assisting the professor during classes by answering questions, leading discussions, and grading assignments.
- Held open TA hours, where students can stop by for help with their Python and Unix programming.

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

- Developed and implemented data automation solutions using Python's Beautiful Soup, 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.
- 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.

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