



JOHN FLORIAN RAICU

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EDUCATION

Glenbrook South High School (GBS) | GPA 4.9/4.0

2020 - Present

▪ Coursework: Biology, Calculus, Chemistry, Computer Science, Engineering, Medical Technology, Physics, Statistics

PUBLICATIONS

- [1] **John Raicu**, Valerie Hayot-Sasson, Kyle Chard, and Ian Foster. "Navigating the Molecular Maze: A Python-Powered Approach to Virtual Drug Screening", under review at IEEE/ACM SuperComputing/SC 2023
 - [2] Jamison Kerney, **John Raicu**, Kyle Chard, Ioan Raicu. "Towards Fine-grained Parallelism in Parsl", under review at IEEE Workshop on Workflows in Support of Large-Scale Science (WORKS) 2023
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AWARDS

1st Place Gold Medal Illinois High School Chess Championship on Board 4	2023
5th/6th/5th Team Place Illinois Chess High School Championship	2021, 2022, 2023
National Honor Society	2023
Varsity Athletic Award Tennis	2023
Athletic Award & Academic Athletic Award Soccer & Tennis	2021, 2022, 2023
Momentum Award Glenbrook Symphony Orchestra	2021, 2022

WORK EXPERIENCE

Research Assistant Globus Labs, University of Chicago	Summer 2023
▪ Ten-week paid internship working under the mentorship of Professors Kyle Chard and Ian Foster	
▪ Explored K-Nearest Neighbors machine learning algorithm to accelerate virtual drug screening	
Tutor Glenbrook South High School	2022 - Present
▪ Tutored GBS students 120 hours in the Titan Learning Center for calculus, biology, chemistry, Spanish	
Tutor Freelance	2020 - Present
▪ Tutored six students with one-on-one lessons paid hourly in Algebra I/II and Geometry	
Intern Illinois Institute of Technology	Summer 2021
▪ Learned Python, HTML/CSS, and searched gene databases with BLAST in <i>Computers Meets Biology</i>	
Entrepreneur J&L	2021
▪ Ran a small business making homemade ice cream and selling it in Glen Oak Acres neighborhood	

COMMUNITY SERVICE

Musical Therapy Performed classical music in dual violin and piano trio at Arbor Terrace Senior Living	2023
Volunteering/Shadowing Dr. Thomas Gleason, Orthopedic Surgeon, Illinois Bone and Joint Institute	2023
Volunteering/Shadowing Dr. Victor Marinescu, Cardiologist, Midwest Cardiovascular Inst. Naperville	2023
Fundraiser Performed holiday music for a fundraiser at the Romanian Community Center	2022
Musical Therapy Performed festive music in string ensemble at Warren Barr Lieberman	2020

EXTRACURRICULARS

GBS Medical Chapter Club	Member (2020 - 2023) President (2023 - Present)
Glenbrook Symphonic Orchestra	2nd Violin (2020 - 2021) 1st Violin (2021 - 2023) Principal Chair (2023 - Present)
Music Institute of Chicago	Violin (2010 - Present), Piano (2015 - Present)
GBS Variety Show	Band Lead , Dangerous (2022) Band Lead , Pirates of the Caribbean (2023)
GBS Tennis Team	2nd Singles (2021) 1st Singles Junior Varsity (2022) 3rd Singles Varsity (2023)
GBS Chess Team	Board 3 (2021) Board 5 (2022) Board 4 (2023)
GBS Table Tennis Team	2nd Singles (2020 - 2022) 1st Singles, Team Captain (2023)
GBS Math Team	Member (2021 - 2023)
GBS Paddle Club	Member (2022) President (2023)
GBS Soccer Team	Striker (2020) Striker (2021) Left Wing Junior Varsity (2022)
GBS Freshmen Orchestra	Concert Master (2020 - 2021)

SKILLS

Languages: English (*native*), Romanian (*native*), Spanish (*fluent*)

Programming: Java (*intermediate*), Python (*intermediate*), HTML (*intermediate*), Latex (*intermediate*)

Tools: Jupyter Notebook, GitHub, Overleaf, Docker, UTM, Photoshop, iMovie, Microsoft Word/Excel/PowerPoint