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", IEEE/ACM SuperComputing/SC 2023

[2] Jamison Kerney, **John Raicu**, Kyle Chard, Ioan Raicu. "Towards Fine-grained Parallelism in Parsl", under review at IEEE International Parallel & Distributed Processing Symposium (IPDPS) 2024

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
Illinois State Seal of Biliteracy | English & Spanish	2021

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
- Contributed to tutorial "Developing Large-Scale Parallel Programs in Python with Parsl" at TAPIA'23

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 *Computers Meets Biology*

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) | Board 2, **Team Captain** (2024)
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*)
Computer Skills: Java, Python, HTML, Latex, Jupyter Notebook, GitHub, Overleaf, Docker, UTM, Photoshop, MS Office