



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

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 *Computers Meets Biology*

Entrepreneur | J&L

Summer 2021

- Ran a small business making homemade ice cream and selling it in Glen Oak Acres neighborhood
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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