JOHN FLORIAN RAICU

1-847-612-8352 **|** jraic@illinois.edu

johnny-raicu.github.io   github.com/johnny-raicu   linkedin.com/in/johnnyraicu

EDUCATION

University of Illinois at Urbana Champaign (UIUC) | GPA NA/4.0   2024 - Present
- Grainger College of Engineering, Department of Bioengineering, Pre-med Track
- Coursework: Calculus, Chemistry, Engineering Seminar, Physics, Orchestra

Glenbrook South High School (GBS) | GPA 4.9/4.0   2020 - 2024
- Coursework: Biology, Calculus, Chemistry, Computer Science, Engineering, Medical Technology, Physics, Statistics

PUBLICATIONS

[1] Jamison Kerney, **John Raicu**, Kyle Chard, Ioan Raicu. "Towards Fine-grained Parallelism in Parsl", High-level Parallel Programming Models and Supportive Environments Workshop 2024, co-located with IEEE IPDPS 2024

[2] **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

PRESENTATIONS

- "Navigating the Molecular Maze: A Python-Powered Approach to Virtual Drug Screening", IEEE/ACM SC 2023   11/23
- "ParslDock: Accelerating Virtual Drug Screening with Parallelism and Machine Learning", ParslFest 2023   10/23
- "Navigating the Molecular Maze: A Python-Powered Approach to Virtual Drug Screening", Globus Labs, UChicago   08/23

AWARDS

Outstanding Senior Award	Glenbrook South High School	2024
Eileen Gamble Memorial Scholarship Award	Glenbrook South High School	2024
Play the Music Award	Glenbrook South High School	2024
Athletic Scholar Award	Tennis @ Glenbrook South High School	2024
1st Place Gold Medal & 5th/6th/5th/19th Team Place | Illinois Chess High School Championship	2021, 2022, 2023, 2024
Athletic Award & Academic Athletic Award	Soccer & Tennis @ Glenbrook South High School	2021, 2022, 2023, 2024
2nd Place ACM SRC	ACM Undergraduate Student Research Competition at IEEE/ACM SC	2023

WORK EXPERIENCE

Tutor | Glenbrook South High School, Titan Learning Center   2022 - 2024
- Tutored GBS students for 200 hours in algebra I/II, geometry, calculus, biology, chemistry, Spanish

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

COMMUNITY SERVICE

Volunteering/Shadowing	Dr. Thomas Gleason, Orthopedic Surgeon, Illinois Bone & Joint Institute	2023
Volunteering/Shadowing	Dr. Victor Marinescu, Cardiologist, Midwest Cardio. Inst. Naperville	2023
Musical Therapy	Performed classical music at Warren Barr Lieberman & Arbor Terrace Senior Living	2020, 2023
Fundraiser	Performed holiday music for a fundraiser at the Romanian Community Center	2022

EXTRACURRICULARS

Philharmonia Orchestra @ UIUC	1st Violin (2024 – Present)
GBS Medical Chapter Club	Member (2020 - 2023) | Outreach Coord. (2022 – 2023) | **President** (2023 - 2024)
Glenbrook Symphonic Orchestra	2nd Violin (2020 - 2021) | 1st Violin (2021 - 2023) | **Principal Chair** (2023 - 2024)
Musical Instruments	Violin (2010 – Present) & Piano (2015 – Present) at Music Institute of Chicago, Laughlin School of Music, and Private Instruction
GBS Variety Show (*Band Lead)	*Dangerous (2022), *Pirates of the Caribbean (2023), Sunny Side of the Street (2023), *Concerto for Four Violins (2024), *Tico Tico (2024), Snow Angel by Paige & The Angels (2024), Survivor (2024)
GBS Chess Team	Board 3 (2021) | Board 5 (2022) | Board 4 (2023) | **Team Captain** Board 2 (2024)
GBS Tennis Team	2nd Singles (2021) | 1st Singles JV (2022) | 3rd Singles Varsity (2023) **Team Captain** 1st Singles Varsity (2024)
GBS Soccer Team	Striker (2020) | Striker (2021) | Left Wing Junior Varsity (2022)

SKILLS

Languages: English (*native*), Romanian (*native*), Spanish (*fluent*); Illinois State Seal of Biliteracy for English & Spanish
Programming: Java (*intermediate*), Python (*intermediate*), Matlab (*intermediate*), HTML (*intermediate*), Latex (*intermediate*)
Tools: Jupyter Notebook, GitHub, Overleaf, Docker, UTM, Linux, Photoshop, iMovie, Fusion360, MS Office (doc/xls/ppt)