



JOHN FLORIAN RAICU

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EDUCATION

University of Illinois at Urbana Champaign | Bioengineering | Pre-med Track | GPA 4.0/4.0 2024 - Present

- Coursework: Calc I/II/III, Gen Chem I/II, Physics I/II, Molecular Biology, Intro to Bioengineering

Glenbrook South High School (GBS) | GPA 4.9/4.0 2020 - 2024

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
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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
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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

Undergraduate Researcher | University of Illinois Urbana-Champaign, Beckman Institute 2025 - Present

- Under the supervision of Dr. Daniel Llano, I study the mechanisms by which complex sounds are processed

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)

GBS Soccer Team **Team Captain** 1st Singles Varsity (2024)

Striker (2020) | Striker (2021) | Left Wing Junior Varsity (2022)

SKILLS

Languages: English (*native*), Romanian (*native*), Spanish (*fluent*); Illinois State Seal of Bilingual Literacy 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)