


JOHN FLORIAN RAICU

1-847-612-8352 | johnny.raicu@gmail.com

 [johnny-raicu.github.io](https://github.com/johnny-raicu)

 github.com/johnny-raicu

 linkedin.com/in/johnnyraicu

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 ACM/IEEE International Symposium on Cluster, Cloud, and Internet Computing (CCGrid) 2024
-

PRESENTATIONS

- Navigating the Molecular Maze: A Python-Powered Approach to Virtual Drug Screening, IEEE/ACM SC 2023, Nov. 2023
 - ParslDock: Accelerating Virtual Drug Screening with Parallelism and Machine Learning, ParslFest 2023, Oct. 2023
 - Navigating the Molecular Maze: A Python-Powered Approach to Virtual Drug Screening, University of Chicago, Aug. 2023
-

AWARDS

1st Place Individual Gold Medal & 5th/6th/5th Team Place | Illinois High School Chess Championship 2021, 2022, 2023
National Honor Society 2023
Varsity Athletic Award (T) & Athletic Award (S/T) & Academic Athletic Award (S/T) | Soccer & Tennis 2021, 2022, 2023
Momentum Award | Glenbrook Symphony Orchestra 2021, 2022
Illinois State Seal of Bilingualism | 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

Volunteering/Shadowing | Dr. Thomas Gleason, Orthopedic Surgeon, Illinois Bone and Joint Institute 2023
Volunteering/Shadowing | Dr. Victor Marinescu, Cardiologist, Midwest Cardiovascular Institute 2023
Musical Therapy | Performed classical music in string ensemble at Senior Living Communities 2020, 2023
Fundraiser | Performed holiday music for a fundraiser at the Romanian Community Center 2022

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

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

Computer: Java, Python, HTML, Latex, Jupyter Notebook, GitHub, Overleaf, Fusion 360, Docker, UTM, Photoshop, MS Office