

Lawrence Bu

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EDUCATION

Georgia Institute of Technology

GPA: 3.80

B.S. Computer Science; Concentrations: Intelligence + Media

Expected graduation: May 2024

Relevant Coursework: Data Structures and Algorithms, Computer Organization and Programming, Objects and Design, Object-Oriented Programming, Discrete Math, Linear Algebra, Multivariable Calculus

PROFESSIONAL & RESEARCH EXPERIENCE

National Institutes of Health

Bethesda, Maryland

Pathways Intern, FOIA Program Specialist

June 2022 – Present

- Processes FOIA requests from beginning to finish, effectively communicates with requesters, supports the FOIA office, attends national and team trainings and program offerings.
- Actively involved in inter-agency operations and communicating between NIH division program officials.

School of Biomedical Informatics at UTHealth

Houston, Texas (Remote)

Faculty-led Research Project

April 2020 – October 2021

- Completed research project that utilized data mining and AI methods in analyzing biomedical data of Alzheimer's Disease. Gained research experience in identifying research topics and developing methods for data collection, processing, and analysis through systematic scientific literature review.
- Authored research paper peer-reviewed and published in the *Springer 2022 BMC Bioinformatics Journal of Computational Intelligence Methods for Bioinformatics and Biostatistics*.

School of Biomedical Engineering at Georgia Tech

Atlanta, Georgia (Remote)

Research Intern

May 2021 – September 2021

- Completed research project that utilized machine-learning methods and statistical metrics to predict Heart Disease risk using real-world patient data.
- Developed logistic regression model using Python which made predictions about Heart Disease risk using 13 distinct patient factors with nearly .95 AUROC accuracy.

Kyros AI

Palo Alto, California (Remote)

UI Design Intern

May 2022 – August 2022

- Was the team lead for a successful project that developed a revamped, modernized forum interface for the Kyros online learning platform
- Used *Figma* digital tool, implementing LoFi and HiFi wireframes and other advanced UI design principles.
- Met with other specialized team leads to organize and incorporate newly-developed features of the interface.

PUBLICATIONS & PROJECTS

American Medical Informatics Association (AMIA) 2020 Annual Symposium

Chicago, Illinois (Virtual)

Invited Speaker - High School Scholars Program

November 14-18, 2020

- Invited speaker in the *High School Scholars Program*. The top six submissions from hundreds of American high school contestants were selected for recognition.

Alzheimer's Association International Conference (AAIC) Satellite Symposium

Athens, Greece (Virtual)

Poster Presentation

May 12-13, 2021

- "*Building an Alzheimer's Disease Knowledge Graph (ADKG) by Extracting and Synthesizing Scientific Evidence from Biomedical Literature and Human-curated knowledge base*", Jingcheng Du, Yuji Zhang, Lawrence Bu, et al.

CIBB 2021 International Conference

Virtual

Research Paper

May 12-13, 2021

- Paper peer-reviewed and published in the 2022 BMC Bioinformatics Journal (Reference: **BMC Bioinformatics, 2022, 23:407**)

HONORS

- 2022 National Merit Finalist, 2022 FEEA Scholarship Recipient, 2020 AMIA National High School Scholar Research Honoree, MCPS Certificate of Meritorious Service Recipient

SKILLS & ACTIVITIES

- **Programming Languages:** Python, C, C++, Java. Proficient with OOP in Java and C++.
- **Other Technical Skills:** Microsoft Office, Linux, AWS
- **World Languages:** Fluent in Chinese; Intermediate experience in Spanish
- **Activities:** HackGT, GT Varsity [NCAA Division 1] Baseball Equipment Manager, Chinese Student Association, GT Chess Club