

# Adrian Ng Zu-Zheng

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## EDUCATION

### Georgetown University

*Bachelor of Arts in Computer Science*

Washington, D.C.

Aug 2022 – May 2026

- Minor: Statistics
- Cumulative GPA: 3.92/4.0, Major GPA: 4.0/4.0, Dean's List (4 Semesters)
- Relevant Coursework: Calculus II, Probability & Statistics, Math Methods for CS, Data Visualization & Graphics, Regression Analysis, Computer Science I & II, Data Structures, Advanced Programming, Intro to Algorithms, Organic Chemistry I & II, General Chemistry I & II, Principles of Physics I & II, Foundations in Biology I

### Cempaka International School

*International Baccalaureate (IB) Diploma Program*

Kuala Lumpur, Malaysia

May 2020 – May 2022

- Score: 42 / 45
- Valedictorian

## RELEVANT EXPERIENCE

### Center for Cancer and Immunology Research, Children's National Hospital

*Research Intern, Zhu Lab*

Washington, D.C.

Apr 2022 – Sept 2022

- Conducted stem cell and nervous system research in oncology using genetically engineered novel mouse models to study brain, body, and nerve tumors.
- Performed extensive data analysis through flow cytometry to tabulate chemical properties of brain tissue and nerve cells.
- Developed hands-on skills through sectioning brain tissue of 200+ mice through paraffin-embedded tissue sectioning.
- Managed a colony of 800+ genetically engineered mice, overseeing their care and experimental use, with an estimated annual maintenance cost of \$72,000.
- Designed and implemented a comprehensive study utilizing GEM models to investigate tumorigenesis, which led to a significant reduction in experimental timelines by 25%, accelerating drug discovery processes for oncology research.
- Examined the role of tumor suppressor genes in the development and injury of the nervous system.

### Tutors In Action (TIA)

*Co-founder & Outreach Director*

Selangor, Malaysia

Nov 2019 – May 2022

- Revived a volunteer online tutoring project during COVID-19, ensuring continued educational support.
- Managed and expanded a team of 500 tutors, providing one-to-one tutorship to over 1,000 students across Malaysia.
- Spearheaded social media campaigns and collaborated with high schools and non-profit organizations nationwide.
- Successfully led the organization through a major staff transition from 12 to 30+ staff in 2022.

## ADDITIONAL EXPERIENCE

### National Registry of Emergency Medical Technicians (NREMT)

*EMT-B Certification Training*

Washington, D.C.

Aug 2023 – Dec 2023

- Completed 200+ hours of training, with a balanced focus on classroom instruction and hands-on skill development in emergency medical techniques and life support protocols.
- Navigated high-pressure situations at MedStar Georgetown University Hospital, responding to an average of 10 patient-care scenarios per shift while ensuring compliance with safety protocols and maintaining accurate documentation throughout each case.
- Gained experience in teamwork and communication during emergency response drills, collaborating with fellow trainees to provide immediate care in simulated real-world scenarios.

### Georgetown Homeless Outreach Programs & Education (HOPE)

*Coordinator & Volunteer*

Washington, D.C.

Aug 2022– Present

- Direct and organize weekly events to prepare and distribute meals and sanitation kits to individuals experiencing homelessness in D.C.
- Collaborate with over 200 members across three branches of HOPE to support and serve the local homeless community through community outreach and awareness efforts.

## TECHNICAL & LANGUAGE SKILLS

**Software:** Microsoft Office (Word, Excel, PowerPoint, OneNote), Google Workspace (Docs, Sheets, Slides, Forms), Vernier LabQuest, ChemDraw, MatLab, R, C++, Python, SQL, HTML, CSS, JavaScript, SQL.

**Languages:** English (native), Malay (professional), Cantonese (working proficiency), Mandarin (elementary)