**Albert Li**

**Skills**

* Programming Languages: Python, R, Java, JavaScript, Node.js, ReactJS, HTML, SQL, C++
* Machine Learning: good understanding of concepts and algorithms
* Problem-Solving: strong analytical and problem-solving skills
* Communication: excellent oral and written communication skills
* Attention to Detail: ability to pay close attention to detail in data analysis tasks

**Work and Volunteering Experiences**

**Software Development Intern,** Health X: May 2023— present

* Developing a mobile app that monitors heart activities
* Building a website to showcase the product

**Social Media Technologist,** Town of Greenburgh, NY:  June 2022—June 2023

**Tutoring**: Sept 2019—Aug 2023

* Tutored elementary and middle schoolers in multiple subjects

**Lifeguard, American Red Cross Lifeguard Certified**, Anthony F. Veteran Park Pool, Town of Greenburgh: June 2022—Aug 2022

**Chess Teacher,** Greenburgh Public Library, NY: July 2022–Nov 2022

* Taught weekly and biweekly classes to beginners

**Math Teacher,** GiGi’s Playhouse, NY: May 2022—Nov 2022

* Taught math lessons to children with Down Syndrome

**Education**

**Edgemont Jr./Sr. High School, New York:** 2017—2023

GPA: 5.57 (weighted, 5-point scale)

ACT Score: 35

Advanced Placement (AP) Exams: American History, Biology, Calculus AB, Chemistry, Computer Science, European History, Psychology, Statistics, Calculus BC, French, Macroeconomics, Physics C Energy and Magnetism, Physics C Mechanics, US Government and Politics

**Finger Lakes Community College, New York:** 2022—present

A.S. in Computer Science expected in December 2023

GPA: 4.0

Courses: Object-Oriented Software Development, Data Structure, Discrete Mathematics, Computer Architecture, Hardware & Operating Systems, Networking Technologies, Technical Ethics

**Duke Kunshan University, Kunshan:** 2023-present

Majoring in Data Science

Current courses: Intermediate Chinese 2 – A, Probability and Statistics, Brides of the Sea

Planned courses: Intermediate Chinese 2 – B, Probability and Random Process, Image Data Science

**Awards**

USA Computing Olympiad (USACO): Gold (2021)

Science Olympiad: Regional 1st place in chemistry (2020)

National French Contest: Gold Medal (2022)

Four-time American Invitational Math Examination Qualifier (2020-2022)

School Math Award (2022)

Second Place in Medicine & Health, Westchester Rockland Junior Science and Humanities Symposium, State Qualifier (2023)

Innovation in Biological Sciences Research Award at Regeneron Westchester Science & Engineering Fair (2021)

Six-time All-County Band and one-time Area All-State Band qualifier

Excellence in Music (2023)

Excellence in French (2023)

**Extracurricular Activities**

**Student Government Organization (GO), Co-President:** Sept 2019—June 2023

* Organized and hosted charity events with other clubs and organizations
* Coordinated with the principal and superintendent to make major school policy decisions

**Mathletes Team, Co-Captain:** Sept 2019—June 2023

* Competed regularly in the Westchester-Putnam Interscholastic and New York Math Leagues

**Science Olympiad, Co-Captain:** Sept 2019—June 2023

* Placed 1st place in chemistry in 2020, qualifying for the state competition

**Chess Club, Captain:** Sept 2019—June 2023

* Taught chess lessons and organized teams for national and regional competitions
* Worked with principal and Board of Ed. to acquire funding and hire a coach
* Ranked 2nd Unrated in the New York State Scholastic Championships in 2018 and 1st 1200U in the National K-12 Grade Championships in 2020, and was named team champion in the 1200U Section of the New York State Scholastic Championships in 2022

**Programming Club, Co-Captain:** Sept 2019—June 2023

* Taught coding and programming to new members
* Organized teams for competitions (Hackathons, Hack Pennsylvania, etc.)

**Varsity Swimming:** Nov 2018—June 2023

* Qualified for divisionals and was the longest-serving member on the team

**Music Bands/Orchestra, First Chair:** Nov 2018—June 2023

* Played the clarinet, tenor saxophone, and violin in the general band, jazz band, woodwind ensemble, and orchestra
* Selected for the All-County and Area All-State Bands every year

**Research Experiences**

**Medical image analysis using machine learning computer vision:** Aug 2022—Feb 2023

Performing brain tumor 3D segmentation with MONAI under Dr. Xuming He of ShanghaiTech University in Shanghai, China (remote)

**Epigenetics in biomedical sciences by using bioinformatics**: March 2021—April 2023

Performing RNA-seq analysis and DNA methylation analysis under Dr. Feizhen Wu of Fudan University in Shanghai, China (remote)

**Identification of genetic and epigenetic factors in valvular heart disease (VHD)**:  July 2020—June 2023

Analyzing *BMPR2* expression and promoter DNA methylation and performing RNA-seq analysis of both VHD patients and healthy controls under Dr. Guofeng Shao of Ningbo University, China (remote)

**PUBLICATIONS**

Li N., Zhu L., Zhu C., Zhou H., Zheng D., Xu G., Shi H., Gao J., **Li A**J, Wang Z., Sun L., Li X., and Shao G. (2021). *BMPR2* promoter methylation and its expression in valvular heart disease complicated with pulmonary hypertension. (*Aging* 13(22):24580-24604.

doi: 10.18632/aging.203690).

Li X., **Li AJ,** Du B. (2021). [COVID-19 (Editorial)](https://pubmed.ncbi.nlm.nih.gov/34298434/). *Stem Cell Research* 55:102468. DOI: 10.1016/j.scr.2021.102468. PMID: 34298434

**Li AJ** and Li X. (2020). Sex-dependent immune response and lethality of COVID-19. *Stem Cell Research* 50:102116. [DOI: 10.1016/j.scr.2020.102116](https://doi.org/10.1016/j.scr.2020.102116). PMID: 33352531