

Sung Park

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EDUCATION

Northwestern University

Evanston, IL

Bachelor's in Arts in CS Major/Economics Minor

Expected Graduation Date: June 2024

- **GPA:** 3.82/4.00
- **Relevant courses:** Introduction to Applied Econometrics, Multivariable Differential Calculus, Linear Algebra, Fundamentals of Computer Programming 1, Fundamentals of Computer Programming 1.5, Discrete Mathematics, Intro to Macroeconomics, Intro to Microeconomics, Data Structures and Algorithms, Programming in C/C++, Intro to Computer Systems, Programming Languages, Operating Systems, Human Computer Interaction, Public Finance

Sycamore High School

Sycamore, IL

- **GPA:** 4.00/4.00
- **ACT:** 34/36
- **SAT Superscore:** 1540/1600 (Critical Reading: 740; Math: 800)

September 2016 – June 2020

WORK EXPERIENCE

Hosmane Lab

Dekalb, IL

Research Assistant

June 2018 – January 2020

- Performed a research project to design a nanoparticle consisting of either carbon, iron oxide, or boron to enhance the chemotherapy regimen to treat glioblastoma.
- Utilized hydrogen-nuclear magnetic resonance and mass spectrometry techniques to analyze the effectiveness of newly synthesized boron nitro nanotubes drug compounds.

Optum

Schaumburg, IL

Technology Development Intern

June 2022 – August 2022

- Developed a back-end Token and Session Validate API service using Java Springboot framework and Redis data store to increase the active session time of customer service advocates and reduce log out incidents.
- Integrated front-end UI Pharmacy Locator Component of Clockwork Library into existing Advocate Central front-end application using React JS and developed Redux layer to enable API calls from the application.

PERSONAL PROJECTS (Link to Github profile: <https://github.com/JoonPark1>)

Tic-Tac-Toe Game

September 2021 – October 2021

- Implemented a two-player tic-tac-toe game in Python that allows users to play indefinitely or play the game again in the future.
- Utilized a dictionary to keep track of the game board's boxes and prevented a false winning condition (three boxes horizontally, vertically, or diagonally can be empty boxes).
- Restricted the game to a maximum of nine valid moves to clearly determine a tie or a winner.

Global Airport Database Management

September 2022 – Present

- Specified set of requirements for the database and utilized an Entity-Relationship (ER) diagram to formally derive airport database schema, which can be used to structure each database table.
- Developed useful blocks of SQL query codes that can retrieve useful relational information and tested them by querying to MySQL relational database management system (RDBMS) with PopSQL application.

LEADERSHIP EXPERIENCE

Peer-Guided Study Group Facilitator

Evanston, IL

Group Facilitator

September 2021 – June 2022

- Lead two-hour weekly study sessions on Introductory Macroeconomics to Northwestern underclassmen.
- Collaborate with other facilitators to develop a study session curriculum and propose effective group-leading approaches.

CODING LANGUAGES AND FRAMEWORKS

- **Coding Languages:** Javascript (Intermediate), Python (Intermediate), Racket (Intermediate), C++ (Intermediate), Java (Intermediate), SQL (intermediate)
- **Frameworks/DBMS:** React JS, Java Springboot, Redis Store, Material-UI, Redux, MySQL, Express, Node JS