

Dongjoo (DJ) Lee

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EDUCATION

New York University

New York, NY

Transferred / BS in Economics and Computer Science

January 2021 – Expected December 2023

- Organizations & Awards: College of Arts and Sciences Joint Major Program, Dean's List, NYU Athletics Employee of Spring 2022 and Fall 2023, NYU Courant Teaching / Research Assistant, NYU CAS College Leader, KISO Secretary, Hack NYU Winner – Best Potential Hack, AWS Game Day Winner
- Relevant Coursework: Data Structures, Basic Algorithms, Computer Systems Organization, Operating Systems, Cyber Security and Cryptography, Applied Internet Technology, Object-Oriented Programming

Rutgers University (New Brunswick)

New Brunswick, NJ

Attended / BS in Finance and Accounting

September 2016 - May 2018

WORK EXPERIENCE

NYU Courant

New York, NY

Teaching /Research Assistant Under Anasse Bari, ph.D.

February 2022 - present

- Specialized in instructing introduction to computer science and data structures, emphasizing essential skills for student success
- Conducted engaging individual and group tutoring sessions, facilitating a comprehensive understanding of Java concepts
- Created an academic search engine, leveraging a comprehensive repository of 4740 research papers for students' accessibility
- Performed predictive analytics daily on political issues utilizing data extracted from major social media platforms

Echo3D

New York, NY

Software Engineering Intern

May 2023 – August 2023

- Created an interactive demonstration program exemplifying the utilization of the Echo3D platform for game development
- Demonstrated expertise in Java, Angular, and TypeScript, leveraging technical proficiency to drive 5 solutions for each project
- Collaborated with engineers to ensure comprehensive testing and quality assurance of 3 new features to the platform
- Embraced Agile methodologies to enhance project management efficiency, contributing to the timely delivery of project success

Republic of Korea Army

Chun-Cheon, South Korea

Special Duty Team Squad Leader

June 2019 - January 2021

- Collaborated with squad leaders to design a training program tailored for counter-terror units emphasizing tactical preparedness
- Supervised a high-caliber counter-terror team comprising 8 soldiers, assigning responsibilities to ensure operational readiness
- Led the squad to 3rd place in the country for the counter-terror division during prestigious Elite 300 Warrior Competition, showcasing the unit's competence and dedication
- Direct 5 team body guarding operations of 3 star general and colonels to get to major meetings safely

PROJECT EXPERIENCE

Energy Trade-Offs (Hack NYU Best Potential Hack Winner)

JavaScript, CSS

- Developed a collaborative game for business owners to play to sustain carbon dioxide emission to 600 ppm
- Analyzed carbon emissions of different power generating methods into measurable quantity (ppm) to show environmental effect
- Conceptualized chart.js for frontend visualization, implemented socket.io functions to achieve real-time synchronization

Course Registration System

Java

- Designed and executed a course registration system that distinguish administrator and students through log in data
- Utilized object-oriented programming (OOP) and created over 20 methods such as registration, sort, navigation, and search
- Implemented 2 interfaces, 4 classes, and an application class to interact with each other within the system
- Serialized objects to maintain the data field of the objects in order to recreate them after termination of the program

Not Your Usual Encoder

C Programming Language

- Architected a sophisticated multithreaded program for data compression by implementing sequential and parallel encoding
- Created thread pool by effectively utilizing mutexes and condition variables to parallelize the encoding process
- Implemented functionality to efficiently process up to 100 files, each with a size of 1GB, ensuring optimal resource utilization
- Exhibited expertise in Inter-Process Communication through the implementation of a thread pool that eliminates race conditions

SKILLS & INTERESTS

Technical Skills: Debugging (Advanced) | Coding (Java, C, C++, Python, JavaScript, TypeScript, CSS, HTML) | Backend Programming | Software Design and Testing

Industry Knowledge: Software Development | Object-Oriented Programming | Google Firebase | AWS | Microsoft Office