John (Jack) Berg

River Vale, NJ | (201) 321-1443 | johnberg2021@gmail.com | www.johnbberg.com

EDUCATION

Tufts University — **Medford, MA**
Bachelor of Science in Computer Science, minor in Mathematics — *Expected May 2025*
- **Cumulative GPA**: 3.92/4.00
- **Relevant Coursework:** Data Structures & Algorithms, Security, Machine Struc. & Assembly Language Programming, Linear Algebra, Software Engineering, Operating Systems, Computation Theory
- **Honors**: Dean's List

Technical Skills

Languages: C++, C, Java, Python, HTML, CSS, JavaScript, VHDL, x86 assembly
Frameworks/Libraries/Tools: Node.js, Express.js, React.js, MongoDB, PostgreSQL, Git, Postman, Wireshark
Additional Skills: Google Suite, Microsoft Excel & PowerPoint, Intermediate Spanish, Intermediate Japanese

PROFESSIONAL EXPERIENCE

Good Energy, L.P. — **New York, NY**
Energy Consultant Intern — *May 2023 – August 2023*
- Supported existing and developing programs that includes energy procurement for 200 municipal customers by interfacing with program members to resolve account and billing issues
- Led a solar program marketing campaign by developing a landing page in Word Press and reaching out to 100 communities, acquiring over a dozen new participating communities
- Managed a database of 10,000 customers, entering account information and parsing executed contracts

Code Ninjas — **Norwood, NJ**
Camp Director — *June 2022 – August 2022*
- Taught 6 different course curriculums to 150 campers ranging from 6 - 14 years of age
- Utilized Python, Lua, and Scratch to manipulate video games (Roblox, Minecraft, etc.), creating an educational and fun programming experience that was adapted toward the age of the students
- Coordinated with 5 counselors to meet the goals of the camp and ensure proper facilitation of curriculum

LEADERSHIP & ACTIVITIES

Tufts Club Lacrosse — **Medford, MA**
Vice-President — *September 2022 – Present*
- A founding member as a sophomore; develop teamwork and work ethic to meet personal and team goals; led team as goalkeeper to 18th in the NCLL Division 2 in first year of the club program
- Elected as Vice President in Junior year; budget $5,000 for club's annual expenses; coordinate with fellow club leaders and Tufts' club sports administration to schedule games and practices

Tufts Engineers Without Borders — **Medford, MA**
Member — *September 2022 – May 2023*
- Contributed toward the Malawi Project that helps residents gain access to clean drinking water in the Solomoni Community by developing and updating club website in Word Press
- Worked with 3 club members to design an automated lighting system in a Tufts greenhouse project

PROJECTS

Image Compressor & Decompressor
- Collaborated with a partner to develop a lossy image compressor and decompressor
- Utilized C to implement color space conversion, quantization, and bit packing

Travel Journal
- Built a front-end web application that allows users to display a journal of travel/vacation information
- Utilized React.js to dynamically display JSON files of user-provided data