

# Donggun Lee (Billy)

Los Angeles, CA

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## EDUCATION

**University of Southern California | GPA: 3.71**

Los Angeles, CA

B.S. Computer Science

May 2025

## EXPERIENCE

**76<sup>th</sup> Software Engineering Group, Tinker Air Force Base**

Oklahoma City, OK

Software Engineering Intern

May 2024-August 2024

- Diagnosed issues in the flight management system and documented procedures to support ongoing maintenance
- Developed a Python script that automates data validation of an orbit propagator and streamlined it to a visualizer
- Enhanced orbit propagation visualization by creating dynamic and interactive features with JavaScript
- Debugged and refactored code of the orbit propagator in C++ to enhance runtime efficiency and system reliability

**USC Korean-American Scientist and Engineers Association**

Los Angeles, CA

Project Development Lead

January 2024-May 2025

- Led a team of 4 to build a responsive React.js website, driving both project planning and frontend development
- Scheduled development milestones, established Git workflow, and maintained project documentation

**USC Information Technology Program**

Los Angeles, CA

Teaching Assistant – Introduction to Web Development

January 2024-May 2024

- Reviewed student code submissions and provided detailed, constructive feedback to support learning
- Assisted students during online office hours, answering technical questions and debugging code in real time

**Non-profit Organization: World War II Camp Wall Committee**

Los Angeles, CA

Full-Stack Developer Intern

June 2023-July 2023

- Led development of a web-based memorial site to honor WW II victims, focusing on user interaction
- Designed a relational SQL database to support CRUD operations for name records, ensuring data scalability
- Built an interactive, browser-based data visualization tool using JavaScript to display names dynamically

**United States Army**

Camp Carroll, Armed Forces Pacific

Equipment Records Parts Specialist

September 2018-January 2022

- Supervised a team of 6 soldiers, overseeing professional development, physical readiness, and daily responsibilities
- Managed requisition and disposal of military vehicle repair parts and consumables, saving over \$20,000 in unit funds
- Processed over 20 military vehicle dispatches weekly and maintained service records of over 200 military equipment

## PROJECTS

**National Park Search, Java, Spring Boot, React, JUnit, Cucumber, MySQL**

- Collaborated with a team of 5 to design the backend for a park search web application utilizing a third-party API
- Developed RESTful endpoints to support user authentication, park search, favorites, and comparison functionalities
- Achieved 100% code and branch coverage through comprehensive unit and integration testing w/ JUnit & Cucumber

**Toy Network Simulator, C++, AWS EC2, Sockets, Multithreading**

- Built a multithreaded network simulation in C++ using POSIX sockets on Linux, supporting HTTP-like GET requests
- Implemented thread synchronization with mutexes and condition variables to manage concurrent socket I/O
- Designed peer-to-peer message exchange system with no central server, simulating communication between nodes

## SKILLS & TECHNICAL TOOLS

- Language: C++, Java, JavaScript, HTML/CSS, SQL, PHP
- Frameworks & Technologies: React.js, Tailwind, Cucumber, JUnit, Laravel, Spring Boot, Git, Maven