**Dongchan Lee**

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**EDUCATION**

**2B at the Faculty of Mathematics, University of Waterloo Fall 2020 - Present**

* Obtained ‘Term Distinction’ at the end of every term.
* 91% Cumulative Average for the latest term.

**The International School of Bangalore Aug 2016 - Jun 2020**

* International Baccalaureate
* IGCSE

**WORK EXPERIENCES**

**Mandatory Military Service (REPUBLIC OF KOREA) Sep 2021 - Mar 2023**

* Assisted in maintaining and training reserve forces at a battalion.
* Performed outstanding results in both practical and theoretical assessments during major training sessions and received two citation awards from my battalion command and division commander.

**Waterloo Experience Accelerate Program May 2021 - Aug 2021**

* Assisted the team in the website development focusing on the user-friendly responsive web design using HTML, CSS and JavaScript.

**SIDE-PROJECTS**

**Communication App (Mobile App)** *https://github.com/shinelee2001/UniLink*

* Implemented with the concept of Object Oriented Programming.
* Utilized Firebase platform for handling back-end.

**Studying Helper App (Web App)** *https://github.com/shinelee2001/MetaLearners*

* Utilized Node.js and MongoDB for the back-end and React.js for the front-end.
* Implemented the middleware to meet the Cross-Origin-Resource-Policy for the communication between the server and the client.

**EXTRA-CURRICULAR ACTIVITIES**

**Personal Website on Github** *https://shinelee2001.github.io/mysite*

**Penetration Testing Sep 2022 - Present**

* Practiced typical web hacking skills such as Command/SQL injection, XSS, CSRF via web application DVWA.
* Studied the structure of a database and various types of SQL injection via webhacking.kr.
* Internally assessed scenario-based penetration tests where the target(weak) environments were brought from www.vulnhub.com.

**Chess Club Sep 2023 - Present**

* Developed a thorough and logical way of building up an idea.

**Mathematics Club Aug 2018 - Dec 2018**

* Studied logics and proof techniques that are essential in mathematics and applied them to prove various theorems on a textbook.
* Developed creativity and mathematical thinking by exploring various math-related paradoxes.
* Studied group theory in depth and explored the algorithm of RSA cryptosystem and implemented own word-to-word cryptosystem based on the ElGamal algorithm.

**SKILLS AND INTERESTS**

**Technical Skills**

* C (Intermediate)
* Python (Intermediate)
* Shell script (Intermediate)
* Linux (Advanced)

**Language Proficiency:** English (Advanced), Korean (Advanced)

**Interests:** Mathematics (Cryptography), chess and basketball.