

# Dongchan Lee

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## SKILLS AND INTERESTS

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**Technical Skills:** Linux, shell script, git/github, C, JavaScript, HTML, CSS

**Interests:** Mathematics (Number theory), chess and basketball.

## EDUCATION

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### 2B at the Faculty of Mathematics, University of Waterloo

Fall 2020 - Present

- Obtained 'Term Distinction' at the end of every study term.
- Took advanced math courses during the first year.
- 91% Cumulative Average for the latest term.

### The International School of Bangalore

Aug 2016 - Jun 2020

- International Baccalaureate
- IGCSE

## SIDE-PROJECTS

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### Todo App.v1 (Web App) <https://shinelee2001.github.io/mysite/todoApp/todoapp.html>

- Implemented todo-list on browser using JavaScript and stored todo-data on local storage.

### Todo App.v2 (Web App) <https://shinelee2001.github.io/mysite/todoApp2/todoapp2.html>

- Implemented drag and drop functionality.

### Communication App (Mobile App) <https://github.com/shinelee2001/UniLink>

- Implemented communication app where people can post and share their pictures, notes and comments.
- Implemented with the concept of Object Oriented Programming.
- Utilized Firebase platform for handling back-end side (authentication and database).

### Studying Helper App (Web App) <https://github.com/shinelee2001/MetaLearners>

In-progress

- 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

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### Personal Website on Github <https://shinelee2001.github.io/mysite>

### National Technical Qualification Certificates (South Korea)

- Computer Specialist in Spreadsheet & Database Level-1
- Linux Master Level-1

### 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.

## EXPERIENCES

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### 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.