

Dongchan Lee

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SKILLS and INTERESTS

Technical Skills: Linux, shell script, git/github, C, Flask(Python), JavaScript, HTML, CSS.

Interests: Mathematics (Abstract Algebra), information security, web application development.

EDUCATION

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 in the latest term.

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 the battalion command and the 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

Planarity Game <https://shinelee2001.github.io/mysite/planarity/planarity.html>

- Implemented an algorithm for generating random untangled planar graph on canvas using JavaScript with the features supporting moving nodes to untangle graph.

File Uploader App <https://github.com/shinelee2001/File-Uploader>

- Implemented file uploading API where client can upload files and view the list of those uploaded files.
- Utilized express, multer and fs for handling file exchanges between server and client and utilized cors package to meet the cross-origin-resource-policy.

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

- Developed on Android Studio using Java where people post and share images, notes and comments.
- Implemented with the concept of Object Oriented Programming.
- Utilized Firebase for handling back-end side (authentication and database).

Studying Helper App (Web App) <https://github.com/shinelee2001/MetaLearner-Flask>

Jan 2024 - Present

- Implemented studying helper application with the main feature of displaying studying contents every 1, 4, 7, and 14 days.
- Utilized Flask and SQLite for the back-end.

EXTRA-CURRICULAR ACTIVITIES

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

Certificates

- Microsoft Office Specialist Master
- *National Technical Qualification Certificates (in South Korea)*
- Computer Specialist in Spreadsheet & Database Level-1
- Linux Master Level-1

Penetration Testing

Mar 2023 - Aug 2023

- 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.
- (https://shinelee2001.github.io/mysite/web_hack/penetration_testing.html) 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 ElGamal algorithm using C language.