

Junsu Lee

I recently earned my Bachelor's degree in Computer Science, with a focus on Artificial Intelligence. I'm deeply passionate about problem-solving and always on the lookout for creative solutions to challenges. My fascination with AI systems motivates me to stay curious and to learn new skills in computer science.

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Beaverton, OR

Personal Projects

Optimal Team Composition Finder:

- **Concepts:** PyTorch, APIs, GPU acceleration, Data processing.

A densely connected neural network for finding optimal correlations between a character and its team for their chance to win the game, League of Legends. Data of 150k played matches gathered from publicly available APIs.

Three.js:

- **Concepts:** JavaScript, 3D rendering, Algorithms.

A sample project to showcase some of the rendering features of Three.js, a 3D graphics library using OpenGL.

- **Concepts:** JavaScript, 3D rendering, Algorithms, 3D models.

A fish tank simulation. Using the THREE.js renderer. Includes a boids implementation and mesh instancing.

Tree Segmentation from Aerial Point Clouds:

- **Concepts:** Python, QGIS 3, Qt 5.0, GUIs, Algorithms.

Senior group project for university. Continuation of previous work. Created an aerial heightmap of a forest, generated from a LiDaR scan, which is parsed into single trees for analysis using our application GUI.

MNIST Classification:

- **Concepts:** Python, NumPy,

Densely connected neural network for classifying 28x28 pixel images of digit drawings. Achieved model validation accuracy of 95.6%.

Work Experience

January 2024 - March 2025

Full-Stack, Data, Software Engineer, and CS Tutor

MMT Prep LLC, Portland, OR

Languages

- English — *Native*
- Korean — *Fluent*
- Spanish — *Studied 3 years*

Technical Skills

Programming languages

- Best:

Python, C, JavaScript

- Capable:

Java, HTML, CSS, Lua, Rust, Bash,

MySQL, SQLite

Operating Systems

Windows OS, Ubuntu Server OS

Libraries

Node.js, THREE.js, Numpy, PyTorch, TensorFlow 2.0, Pandas, Vue.js

Education

Completed:

September 2019 - June 2021

Portland Community College, Portland OR

Associate of Science, University Transfer

Completed:

September 2021 - 2023

Oregon State University, Corvallis OR

Bachelor of Science, Computer Science