

Hanson Li

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Website: <https://smallchungus1.github.io/> Github: <https://github.com/SmallChungus1>

EDUCATION:

Washington University in St. Louis

B.S. in Computer Science & Economics

Relevant Coursework: Data Structures and Algorithms, OOP, Intro to Artificial Intelligence, Intro to Machine Learning, Statistics, Matrix Algebra, Calculus III, Discrete Math.

Aug 2022 - May 2025

St Louis, MO

TECHNICAL SKILLS:

Languages: C++, Java, JavaScript, HTML/CSS, Python, PHP, R, Bash

Technologies: Keras, Node.js, MongoDB, MySQL, AWS-EC2, Scikit-learn, Linux, OpenCV, Mediapipe

Frameworks: TensorFlow, PyTorch, Express.js, Flask, Django

WORK EXPERIENCE:

Computational Imaging Group, Washington University

Undergraduate Research Assistant

Feb 2024 - Present

St. Louis, MO

- Working with a Ph.D. student, learning about the application of neural networks in image-denoising tasks.
- Building, training, and evaluating image-denoising models implementing the U-Net architecture.

Washington University Computer Science Department

Primary Teaching Assistant for CSE 240: Logic and Discrete Mathematics

Jan 2023 - Present

St. Louis, MO

- Hosted weekly office hours and graded homework and exams for a class of ~100 students.
- Facilitated in-class quizzes and helped the instructor answer questions during lectures.

Quality Assurance Department, Jireh Semiconductor

Database Management Intern

June 2021 - July 2021

Portland, Oregon

- Created wafer defects databases in Excel with 70+ entries for data analysis and training.
- Wrote VBA scripts to automate database operations in Excel.
- Checked database for inconsistencies and searched for missing data across directories.

PROJECTS:

Lightweight CNN for Playing Cards Classification | Python, Pytorch

Spring 2024

- Designed and built a CNN to perform categorical classification on playing cards.
- Model architecture focused on fast training speed. Achieved 91% accuracy.
- Project page: <https://smallchungus1.github.io/mlProjPages/playingCardProj.html>.

Binary Classification for Forest Fire Images | Python, Keras, TensorFlow, Flask

Winter 2024

- Built a binary classification CNN implementing the VGG16 architecture that predicts if the given image depicts a forest fire or not. Achieved 90% accuracy. Packaged into a web app allowing predictions with image URLs.
- Project page: <https://smallchungus1.github.io/mlProjPages/forestFireProj.html>.

Virtual Gym | Flask, HTML/CSS, OpenCV, Mediapipe, MongoDB, Heroku

Fall 2023

- A computer vision web app that detects pose landmarks and counts how many sets of workouts a user has done with OpenCV and Mediapipe. Deployed at: <https://virtual-workout-955f643f91f5.herokuapp.com/>.

Game Review | Django, HTML/CSS, MongoDB, Heroku

Fall 2023

- Created a game review website implementing CRUD operations for games and user reviews
- Deployed at: <https://gamereviewcentral-baed019d01e9.herokuapp.com/>.