

Linsen Gao

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Portfolio: linsen-gao-457.github.io
Github: github.com/Linsen-gao-457

Education

University of Waterloo <i>Master of Engineering - Electrical and Computer Engineering</i>	Sep 2024 - Present Waterloo, Canada
Nanjing University of Posts and Telecommunications <i>Bachelor of Engineering - Telecommunication Engineering (GPA: 90.06/100, TOP 6.7%)</i>	Sep 2020 - Jun 2024 Nanjing, China

Skills

Programming Language: Python, MATLAB, C, Verilog, Java
Language: Mandarin(native), English(proficient)

Research

SA-CNN Emotional Detection System for Facial Expression <i>Supervised by Prof. Minghai Xu</i>	Jan 2024 - Jun 2024 Nanjing, China
<ul style="list-style-type: none">Integrated convolutional neural networks (CNN) with self-attention mechanisms to enhance model performance, achieving an overall system accuracy rate of 85%Implemented a YOLO-based model for precise face detection to accurately isolate faces from images in various environments	
EEG/EMG-based Emergency Brake Prediction <i>Supervised by Prof. Liya Huang</i>	Jan 2022 - Jun 2022 Nanjing, China
<ul style="list-style-type: none">Collaborated with a cross-disciplinary team to integrate multiple data sources, including an EEG cap, smartphone accelerometer, and a homemade FPGA for muscle contraction testingImplemented a weighted fusion algorithm by using multiple data sources to predict final results, showcasing proficiency in algorithm development and integrationAwarded 2023 Outstanding Conclusion of Student Innovation and Entrepreneurship Project (TOP 1%)	

Experience

Software Engineering Intern at ENN Group <i>GPT Collaborative Knowledge Base Module for Enhanced Q&A</i>	Jul 2023 - Sep 2023 Nanjing, China
<ul style="list-style-type: none">Independently trained Transformer-based model for one of China's largest energy companiesAchieved 90% answer accuracy rate for company's confidential proprietary knowledge baseIntegrated deployed model with company's internal messaging platform	

Project

Word Guessing Game Development	Sep 2021 - Oct 2021
<ul style="list-style-type: none">Developed an interactive word guessing game in CDeveloped a character matching algorithm that updates correct guesses and tracks errors in a word guessing game, with random word selection and limited attemptsImplemented file I/O for persistent player rankings	
Android Timetable Design App Development	Nov 2023 - Dec 2023
<ul style="list-style-type: none">Developed application logic for course scheduling and instructor detailsDesigned a user-friendly interface using XMLIntegrated SQLite for persistent data storage, ensuring data security and reliability	

Awards

Outstanding Conclusion of Student Innovation and Entrepreneurship Project (TOP 1%)	May 2023
School-level first-class scholarship (TOP 5%)	Jun 2024
School Class Club Contribution Award	Sep 2021
The Second Prize of Electronic Design Contest for College Students (TOP 5%)	Jan 2021
Provincial Second Prize in Advanced Mathematics Contest (TOP 5%)	May 2021