Kevin Lin

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Education

Purdue University West Lafayette, IN

- Bachelor of Science in Computer Engineering August 2020 - May 2024
- Dean's List, Vertically-Integrated Projects Team, EPICS Cumulative GPA: 3.59/4.0

Courses: Data Structures, OOP in C++/Java, Python for Data Science, Data Science, Discrete Mathematics, Advance C Programming, Digital Systems, Signal and Systems

Skills

Languages: C, C#, C++, R, Python, Java, JavaScript, MATLAB, HTML, CSS
Technologies: Amazon AWS, Git, Unix/Linux, PyTorch, Unity, Arduino, Verilog, ROS, LTspice, Fusion 360

Work Experience

Undergraduate Researcher – Computer Vision for Embedded Systems**,** VIP Team May. 2022 – Present

- Research existing neural networks to develop a scalable and efficient vision transformer with PyTorch to allow computer vision to run on embedded system
- Design/implement image pruning and pixel masking to eliminate irrelevant pixels and cut away redundant parameters to optimize accuracy and speed trade-off of Vision Transformers

Undergraduate Teacher's Assistant – Advance C Programming, Purdue University Aug. 2022 – Present

- Mentor students on programming concepts such as data types, recursion, data structure, dynamic memory management, linked list, and trees
- Help improve students' understanding of tools such as Git, GDB, Valgrind, Unix/Linux

Caterpillar – Researcher Aug. 2021 – Dec. 2021

- Organized and designed a machine learning algorithm that sorts customer invoices with Pandas, PyTorch, NumPy
- Led the team with my research on implementing Chi-Square Test, Crammer's V Coefficient, and Jaccard's Index for feature/variable selection
- Collaborated with and studied under Caterpillar mentors and managers using the Agile Process to pitch progress/update

Projects

Multivariate Grade Tracker – Personal Project Current

- Develop and design a full-stack web application that calculates grades and recommends scores using MERN stack

Compiler – Personal Project October 2022

- Built a compiler in C++ for a simple assembly language program

Bluetooth Wave Generator – Engineering Projects in Community Service (EPICS) Jan. 2022 – May. 2022

- Engineered/Prototyped a portable wave generator with Bluetooth features to control wave speed/intensity using Arduino
- Positively impacted the kids at KidsPlayGym, a safe and therapeutic environment for children in my community

Wheel of Fortune – Personal Project Feb. 2021

- Wheel of Fortune game written in Python

Kinetic Enzyme Sorting Algorithm – Natural Catalyst INC. Oct. 2020 – Dec. 2020

- Cooperated with a multidisciplinary team to design an algorithm that filters noisy data and outliers to find best-fitting model parameters in MATLAB